

**Supplementary Material for  
“Entropic Stabilization of Cas4 Protein SSO0001  
predicted with Popcoen”**

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# Supplementary Figures

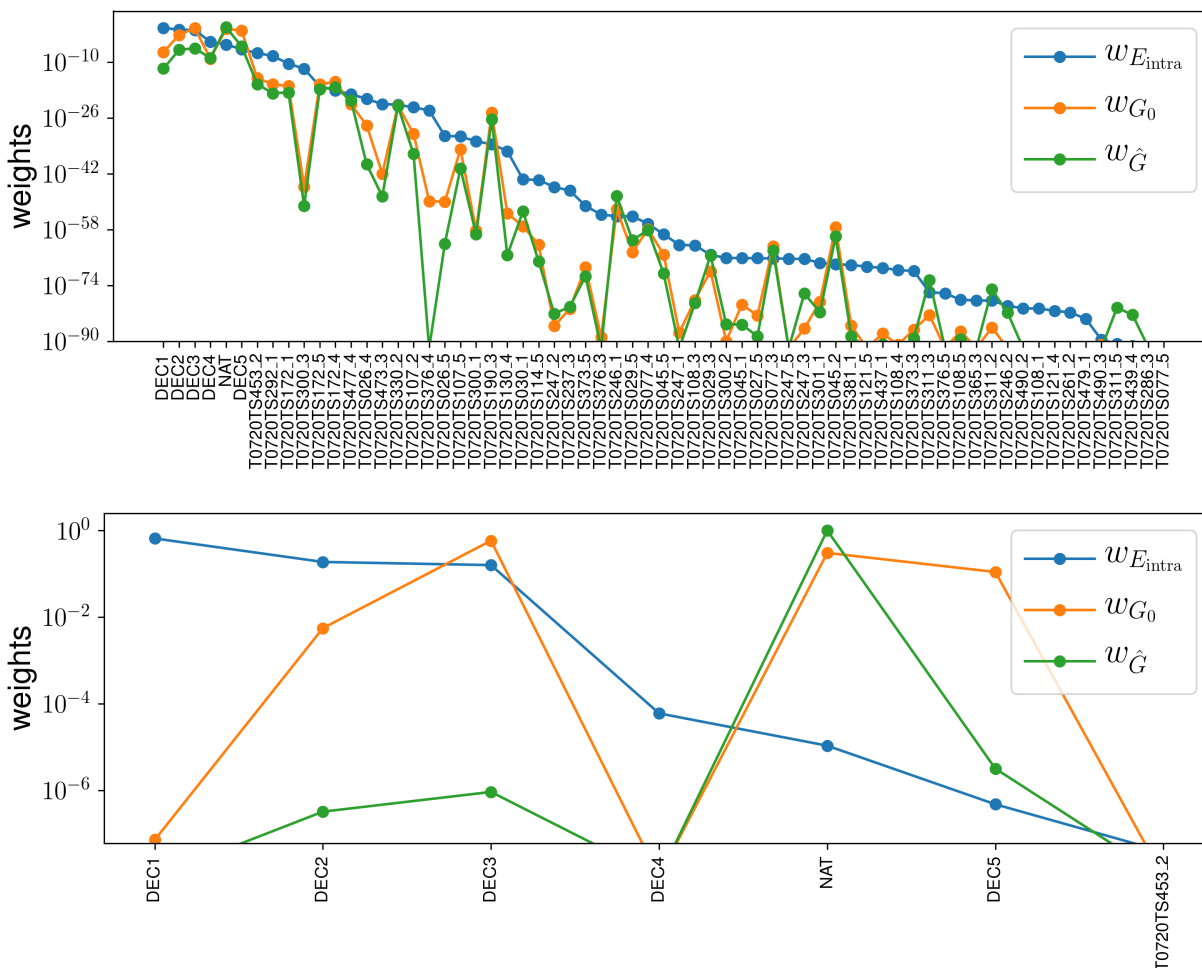


Figure S1: The weights  $w_{E_{\text{intra}}}$ ,  $w_{G_0}$ , and  $w_{\hat{G}}$  (of Eq. 2) for all structures with weights larger  $10^{-90}$ . The top panel shows the range  $[10^{-90}, 1]$  and the bottom panel a zoom to the range  $[10^{-7}, 1]$ . Most of the CASP-decoys are high-energy states which have only negligible contribution to the equilibrium state of the protein at ambient conditions. In the Result section, we limit our considerations to six states (NAT, DEC1, ... DEC5) because the accumulated weights of these states exceed  $1 - 10^{-7}$  for all three cost functions. NAT has a weight  $w_{\hat{G}} > 0.99999$ . Therefore, it is meaningful to denote NAT as the native state of the protein. The weight  $w_{\hat{G}}$  is smaller than  $w_{G_0}$  for all decoys with reasonable values  $w_{G_0}$ . Therefore, configurational entropy stabilized the native state of the protein against decoy states of low  $G_0$ .

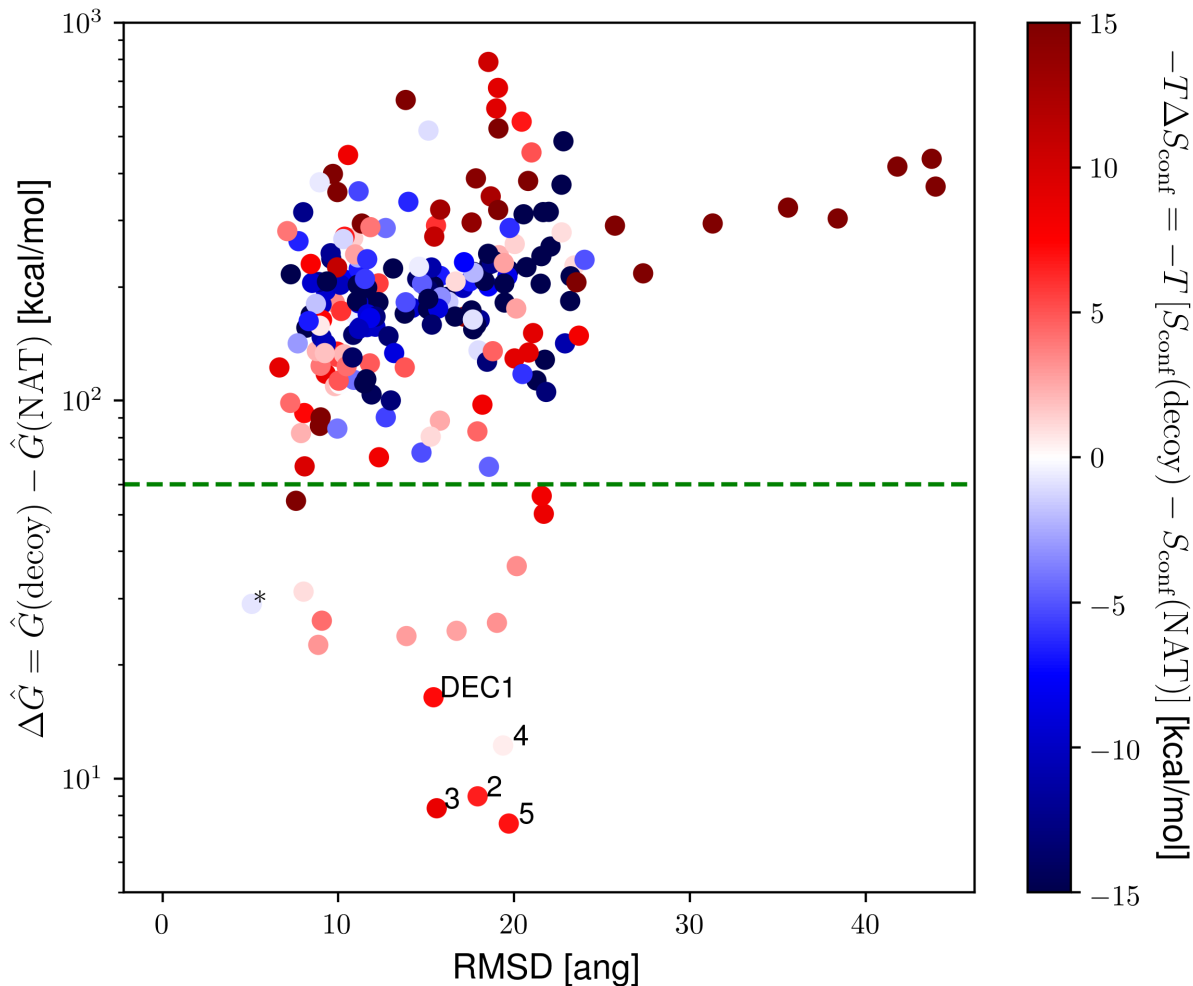


Figure S2: Scatter plot of RMSD vs.  $\Delta\hat{G}$  for all 217 decoys where RMSD denotes the root-mean-square deviation between NAT and the decoys, and  $\Delta\hat{G}$  is the difference of  $\hat{G}$  between the decoys and NAT. DEC1, ..., DEC5 are labeled with DEC1, 2, ... 5. The color code represents  $-T\Delta S_{\text{conf}}$ . This shows that NAT has more configurational entropy than basically all decoys with  $\Delta\hat{G} < 60$  kcal/mol (indicated with the dashed line). (The exception is decoy T0720TS477\_4 with  $-T\Delta S_{\text{conf}} = -0.78$  kcal/mol labeled with an asterisk.) This shows that configurational entropy stabilizes NAT against other decoy states of low  $G_0$ .

## 3D visualization of $\Delta S_i$

Fig. 2 of the article shows the scaffold of NAT and DEC3. The color represents the partial entropy differences  $\Delta S_i$  between the conformations. The raw data for such plots are given below. This allows to easily reproduce the images in 3D using VMD.

Ten pdb files are listed below. The file names are of the format `XXX_vs_YYY_dSi_colored.pdb` where either `XXX` or `YYY` equals NAT and the other equals a decoy name. The pdb file represents the structure of `XXX`. The occupancy records of the pdb file are modified to (rescaled values) of  $dSi = S_i(\text{DEC}) - S_i(\text{NAT})$ . Note that  $dSi = -\Delta S_i$ . (By turning the sign, VMD represents residues with more entropy in NAT than in the decoy with red colors). The pdb files can be extracted from this .pdf document (using e.g. `pdftotext`) and loaded into VMD. The representation of Fig. 2 was generated by choosing "Occupancy" as the "Coloring Method" and "NewCartoon" as "Drawing Method". The used linear scaling between occupancy values and  $dSi$  is outlined in the header of each pdb file.

```
REMARK 1 *****
REMARK 1 Start File DEC1_vs_NAT_dSi_colored.pdb
REMARK 1 The occupancy record was modified to represent dSi := Si(DEC)-Si(NAT).
REMARK 1 Occ=0.00 means dSi=-1.507170 kB; Occ=99.99 means dSi=1.490229 kB.
MODEL
  0
ATOM 1 N MET A 1 5.474 16.109 -4.355 35.21 0.00 N
ATOM 2 CA MET A 1 6.038 15.157 -3.406 35.21 0.00 C
ATOM 3 C MET A 1 7.504 14.877 -3.712 35.21 0.00 C
ATOM 4 O MET A 1 7.930 14.938 -4.865 35.21 0.00 O
ATOM 5 N ILE A 2 8.272 14.570 -2.672 31.82 0.00 N
ATOM 6 CA ILE A 2 9.694 14.291 -2.827 31.82 0.00 C
ATOM 7 C ILE A 2 9.949 12.797 -2.982 31.82 0.00 C
ATOM 8 O ILE A 2 9.316 11.977 -2.316 31.82 0.00 O
ATOM 9 N THR A 3 10.878 12.449 -3.865 27.55 0.00 N
ATOM 10 CA THR A 3 11.218 11.053 -4.109 27.55 0.00 C
ATOM 11 C THR A 3 11.486 10.315 -2.804 27.55 0.00 C
ATOM 12 O THR A 3 10.894 9.269 -2.539 27.55 0.00 O
ATOM 13 N GLU A 4 12.381 10.867 -1.992 41.92 0.00 N
ATOM 14 CA GLU A 4 12.747 10.248 -0.722 41.92 0.00 C
ATOM 15 C GLU A 4 11.565 10.224 0.239 41.92 0.00 C
ATOM 16 O GLU A 4 11.391 9.271 0.998 41.92 0.00 O
ATOM 17 N PHE A 5 10.757 11.277 0.201 41.07 0.00 N
ATOM 18 CA PHE A 5 9.560 11.354 1.031 41.07 0.00 C
ATOM 19 C PHE A 5 8.653 10.153 0.801 41.07 0.00 C
ATOM 20 O PHE A 5 8.264 9.466 1.746 41.07 0.00 O
ATOM 21 N LEU A 6 8.318 9.902 -0.461 17.98 0.00 N
ATOM 22 CA LEU A 6 7.410 8.817 -0.813 17.98 0.00 C
ATOM 23 C LEU A 6 8.047 7.459 -0.547 17.98 0.00 C
ATOM 24 O LEU A 6 7.369 6.512 -0.149 17.98 0.00 O
ATOM 25 N LEU A 7 9.353 7.370 -0.772 29.60 0.00 N
ATOM 26 CA LEU A 7 10.096 6.144 -0.500 29.60 0.00 C
ATOM 27 C LEU A 7 10.037 5.783 0.979 29.60 0.00 C
ATOM 28 O LEU A 7 9.849 4.620 1.336 29.60 0.00 O
ATOM 29 N LYS A 8 10.200 6.786 1.835 47.82 0.00 N
ATOM 30 CA LYS A 8 10.158 6.576 3.277 47.82 0.00 C
ATOM 31 C LYS A 8 8.737 6.305 3.753 47.82 0.00 C
ATOM 32 O LYS A 8 8.528 5.698 4.805 47.82 0.00 O
ATOM 33 N LYS A 9 7.760 6.759 2.975 30.34 0.00 N
ATOM 34 CA LYS A 9 6.356 6.533 3.295 30.34 0.00 C
ATOM 35 C LYS A 9 5.938 5.106 2.961 30.34 0.00 C
ATOM 36 O LYS A 9 5.088 4.525 3.636 30.34 0.00 O
ATOM 37 N LYS A 10 6.539 4.548 1.915 26.27 0.00 N
ATOM 38 CA LYS A 10 6.268 3.171 1.521 26.27 0.00 C
ATOM 39 C LYS A 10 7.299 2.217 2.110 26.27 0.00 C
ATOM 40 O LYS A 10 7.264 1.014 1.852 26.27 0.00 O
```

ATOM	41	N	LEU	A	11	8.216	2.760	2.903	25.05	0.00	N
ATOM	42	CA	LEU	A	11	9.294	1.968	3.483	25.05	0.00	C
ATOM	43	C	LEU	A	11	8.751	0.735	4.193	25.05	0.00	C
ATOM	44	O	LEU	A	11	9.351	-0.338	4.140	25.05	0.00	O
ATOM	45	N	GLU	A	12	7.612	0.895	4.859	18.67	0.00	N
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ATOM	47	C	GLU	A	12	6.632	-1.355	4.697	18.67	0.00	C
ATOM	48	O	GLU	A	12	6.660	-2.516	5.107	18.67	0.00	O
ATOM	49	N	GLU	A	13	6.283	-1.035	3.455	0.00	0.00	N
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ATOM	51	C	GLU	A	13	7.321	-2.638	1.904	0.00	0.00	C
ATOM	52	O	GLU	A	13	7.409	-3.836	1.636	0.00	0.00	O
ATOM	53	N	HIS	A	14	8.325	-1.783	1.744	18.87	0.00	N
ATOM	54	CA	HIS	A	14	9.631	-2.218	1.261	18.87	0.00	C
ATOM	55	C	HIS	A	14	10.335	-3.092	2.292	18.87	0.00	C
ATOM	56	O	HIS	A	14	11.251	-3.845	1.959	18.87	0.00	O
ATOM	57	N	LEU	A	15	9.904	-2.987	3.543	29.94	0.00	N
ATOM	58	CA	LEU	A	15	10.425	-3.837	4.608	29.94	0.00	C
ATOM	59	C	LEU	A	15	9.356	-4.794	5.120	29.94	0.00	C
ATOM	60	O	LEU	A	15	9.386	-5.210	6.278	29.94	0.00	O
ATOM	61	N	SER	A	16	8.414	-5.141	4.251	29.27	0.00	N
ATOM	62	CA	SER	A	16	7.306	-6.010	4.628	29.27	0.00	C
ATOM	63	C	SER	A	16	7.798	-7.409	4.981	29.27	0.00	C
ATOM	64	O	SER	A	16	7.141	-8.141	5.720	29.27	0.00	O
ATOM	65	N	HIS	A	17	8.959	-7.773	4.447	26.74	0.00	N
ATOM	66	CA	HIS	A	17	9.580	-9.053	4.765	26.74	0.00	C
ATOM	67	C	HIS	A	17	10.221	-9.026	6.147	26.74	0.00	C
ATOM	68	O	HIS	A	17	10.534	-10.071	6.718	26.74	0.00	O
ATOM	69	N	VAL	A	18	10.414	-7.825	6.681	28.01	0.00	N
ATOM	70	CA	VAL	A	18	10.985	-7.660	8.011	28.01	0.00	C
ATOM	71	C	VAL	A	18	9.935	-7.876	9.093	28.01	0.00	C
ATOM	72	O	VAL	A	18	8.851	-7.295	9.045	28.01	0.00	O
ATOM	73	N	LYS	A	19	10.262	-8.717	10.069	25.89	0.00	N
ATOM	74	CA	LYS	A	19	9.372	-8.966	11.196	25.89	0.00	C
ATOM	75	C	LYS	A	19	8.921	-7.662	11.840	25.89	0.00	C
ATOM	76	O	LYS	A	19	9.720	-6.747	12.038	25.89	0.00	O
ATOM	77	N	GLU	A	20	7.634	-7.583	12.165	38.34	0.00	N
ATOM	78	CA	GLU	A	20	7.052	-6.356	12.695	38.34	0.00	C
ATOM	79	C	GLU	A	20	7.622	-6.023	14.067	38.34	0.00	C
ATOM	80	O	GLU	A	20	7.384	-4.940	14.603	38.34	0.00	O
ATOM	81	N	GLU	A	21	8.375	-6.959	14.633	52.27	0.00	N
ATOM	82	CA	GLU	A	21	9.076	-6.724	15.889	52.27	0.00	C
ATOM	83	C	GLU	A	21	10.514	-6.283	15.644	52.27	0.00	C
ATOM	84	O	GLU	A	21	11.367	-6.397	16.525	52.27	0.00	O
ATOM	85	N	ASN	A	22	10.776	-5.781	14.443	45.69	0.00	N
ATOM	86	CA	ASN	A	22	12.078	-5.209	14.119	45.69	0.00	C
ATOM	87	C	ASN	A	22	13.144	-6.292	14.015	45.69	0.00	C
ATOM	88	O	ASN	A	22	14.261	-6.126	14.505	45.69	0.00	O
ATOM	89	N	THR	A	23	12.793	-7.400	13.372	71.65	0.00	N
ATOM	90	CA	THR	A	23	13.758	-8.453	13.077	71.65	0.00	C
ATOM	91	C	THR	A	23	13.774	-8.786	11.591	71.65	0.00	C
ATOM	92	O	THR	A	23	12.815	-9.347	11.061	71.65	0.00	O
ATOM	93	N	ILE	A	24	14.867	-8.435	10.923	76.27	0.00	N
ATOM	94	CA	ILE	A	24	14.963	-8.586	9.476	76.27	0.00	C
ATOM	95	C	ILE	A	24	15.043	-10.056	9.080	76.27	0.00	C
ATOM	96	O	ILE	A	24	15.957	-10.771	9.492	76.27	0.00	O
ATOM	97	N	TYR	A	25	14.081	-10.500	8.279	61.46	0.00	N
ATOM	98	CA	TYR	A	25	14.097	-11.856	7.742	61.46	0.00	C
ATOM	99	C	TYR	A	25	14.610	-11.874	6.307	61.46	0.00	C
ATOM	100	O	TYR	A	25	13.971	-11.337	5.403	61.46	0.00	O
ATOM	101	N	VAL	A	26	15.768	-12.495	6.107	76.75	0.00	N
ATOM	102	CA	VAL	A	26	16.377	-12.569	4.784	76.75	0.00	C
ATOM	103	C	VAL	A	26	15.764	-13.690	3.955	76.75	0.00	C
ATOM	104	O	VAL	A	26	15.330	-13.473	2.824	76.75	0.00	O
ATOM	105	N	THR	A	27	15.730	-14.889	4.526	59.89	0.00	N
ATOM	106	CA	THR	A	27	15.187	-16.052	3.833	59.89	0.00	C
ATOM	107	C	THR	A	27	13.781	-15.777	3.313	59.89	0.00	C
ATOM	108	O	THR	A	27	13.426	-16.193	2.211	59.89	0.00	O
ATOM	109	N	ASP	A	28	12.987	-15.074	4.113	62.29	0.00	N
ATOM	110	CA	ASP	A	28	11.622	-14.732	3.730	62.29	0.00	C
ATOM	111	C	ASP	A	28	11.592	-14.007	2.390	62.29	0.00	C
ATOM	112	O	ASP	A	28	10.728	-14.265	1.553	62.29	0.00	O
ATOM	113	N	LEU	A	29	12.541	-13.097	2.195	78.11	0.00	N
ATOM	114	CA	LEU	A	29	12.636	-12.345	0.949	78.11	0.00	C
ATOM	115	C	LEU	A	29	13.227	-13.198	-0.165	78.11	0.00	C
ATOM	116	O	LEU	A	29	12.760	-13.163	-1.303	78.11	0.00	O
ATOM	117	N	VAL	A	30	14.260	-13.966	0.168	60.79	0.00	N
ATOM	118	CA	VAL	A	30	14.974	-14.762	-0.823	60.79	0.00	C
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ATOM	120	O	VAL	A	30	14.140	-16.009	-2.696	60.79	0.00	O
ATOM	121	N	ARG	A	31	13.156	-16.359	-0.702	99.99	0.00	N
ATOM	122	CA	ARG	A	31	12.295	-17.431	-1.187	99.99	0.00	C
ATOM	123	C	ARG	A	31	10.952	-16.890	-1.659	99.99	0.00	C
ATOM	124	O	ARG	A	31	10.035	-17.653	-1.962	99.99	0.00	O
ATOM	125	N	CYS	A	32	10.843	-15.567	-1.721	67.03	0.00	N
ATOM	126	CA	CYS	A	32	9.624	-14.920	-2.191	67.03	0.00	C
ATOM	127	C	CYS	A	32	9.536	-14.947	-3.711	67.03	0.00	C
ATOM	128	O	CYS	A	32	10.473	-14.551	-4.404	67.03	0.00	O
ATOM	129	N	PRO	A	33	8.405	-15.419	-4.224	50.80	0.00	N
ATOM	130	CA	PRO	A	33	8.181	-15.473	-5.664	50.80	0.00	C
ATOM	131	C	PRO	A	33	8.104	-14.074	-6.262	50.80	0.00	C
ATOM	132	O	PRO	A	33	8.375	-13.880	-7.447	50.80	0.00	O

ATOM	133	N	ARG	A	34	7.735	-13.102	-5.436	19.13	0.00	N
ATOM	134	CA	ARG	A	34	7.681	-11.710	-5.864	19.13	0.00	C
ATOM	135	C	ARG	A	34	9.077	-11.160	-6.129	19.13	0.00	C
ATOM	136	O	ARG	A	34	9.292	-10.418	-7.087	19.13	0.00	O
ATOM	137	N	ARG	A	35	10.024	-11.530	-5.274	22.35	0.00	N
ATOM	138	CA	ARG	A	35	11.430	-11.223	-5.507	22.35	0.00	C
ATOM	139	C	ARG	A	35	11.911	-11.815	-6.826	22.35	0.00	C
ATOM	140	O	ARG	A	35	12.628	-11.163	-7.586	22.35	0.00	O
ATOM	141	N	VAL	A	36	11.514	-13.054	-7.092	50.49	0.00	N
ATOM	142	CA	VAL	A	36	11.834	-13.707	-8.356	50.49	0.00	C
ATOM	143	C	VAL	A	36	11.285	-12.918	-9.538	50.49	0.00	C
ATOM	144	O	VAL	A	36	11.943	-12.790	-10.571	50.49	0.00	O
ATOM	145	N	ARG	A	37	10.075	-12.393	-9.381	50.75	0.00	N
ATOM	146	CA	ARG	A	37	9.466	-11.553	-10.406	50.75	0.00	C
ATOM	147	C	ARG	A	37	10.294	-10.299	-10.654	50.75	0.00	C
ATOM	148	O	ARG	A	37	10.454	-9.865	-11.796	50.75	0.00	O
ATOM	149	N	TYR	A	38	10.819	-9.720	-9.579	51.51	0.00	N
ATOM	150	CA	TYR	A	38	11.687	-8.553	-9.685	51.51	0.00	C
ATOM	151	C	TYR	A	38	12.991	-8.898	-10.392	51.51	0.00	C
ATOM	152	O	TYR	A	38	13.480	-8.133	-11.224	51.51	0.00	O
ATOM	153	N	GLU	A	39	13.552	-10.055	-10.056	73.67	0.00	N
ATOM	154	CA	GLU	A	39	14.832	-10.477	-10.613	73.67	0.00	C
ATOM	155	C	GLU	A	39	14.724	-10.723	-12.113	73.67	0.00	C
ATOM	156	O	GLU	A	39	15.615	-10.352	-12.878	73.67	0.00	O
ATOM	157	N	SER	A	40	13.628	-11.348	-12.528	55.15	0.00	N
ATOM	158	CA	SER	A	40	13.440	-11.719	-13.927	55.15	0.00	C
ATOM	159	C	SER	A	40	13.018	-10.518	-14.762	55.15	0.00	C
ATOM	160	O	SER	A	40	13.599	-10.245	-15.812	55.15	0.00	O
ATOM	161	N	GLU	A	41	12.002	-9.802	-14.290	47.58	0.00	N
ATOM	162	CA	GLU	A	41	11.468	-8.656	-15.017	47.58	0.00	C
ATOM	163	C	GLU	A	41	12.462	-7.503	-15.036	47.58	0.00	C
ATOM	164	O	GLU	A	41	12.611	-6.814	-16.046	47.58	0.00	O
ATOM	165	N	TYR	A	42	13.143	-7.297	-13.913	46.48	0.00	N
ATOM	166	CA	TYR	A	42	14.100	-6.205	-13.786	46.48	0.00	C
ATOM	167	C	TYR	A	42	15.492	-6.728	-13.459	46.48	0.00	C
ATOM	168	O	TYR	A	42	15.936	-6.666	-12.312	46.48	0.00	O
ATOM	169	N	LYS	A	43	16.180	-7.243	-14.474	61.04	0.00	N
ATOM	170	CA	LYS	A	43	17.492	-7.848	-14.281	61.04	0.00	C
ATOM	171	C	LYS	A	43	18.500	-6.827	-13.769	61.04	0.00	C
ATOM	172	O	LYS	A	43	19.471	-7.180	-13.100	61.04	0.00	O
ATOM	173	N	GLU	A	44	18.263	-5.558	-14.087	57.96	0.00	N
ATOM	174	CA	GLU	A	44	19.156	-4.485	-13.670	57.96	0.00	C
ATOM	175	C	GLU	A	44	18.840	-4.021	-12.254	57.96	0.00	C
ATOM	176	O	GLU	A	44	19.630	-3.315	-11.630	57.96	0.00	O
ATOM	177	N	LEU	A	45	17.677	-4.425	-11.752	52.74	0.00	N
ATOM	178	CA	LEU	A	45	17.225	-4.003	-10.431	52.74	0.00	C
ATOM	179	C	LEU	A	45	17.990	-4.726	-9.330	52.74	0.00	C
ATOM	180	O	LEU	A	45	17.980	-5.955	-9.258	52.74	0.00	O
ATOM	181	N	ALA	A	46	18.654	-3.956	-8.475	72.00	0.00	N
ATOM	182	CA	ALA	A	46	19.441	-4.523	-7.386	72.00	0.00	C
ATOM	183	C	ALA	A	46	18.543	-5.156	-6.330	72.00	0.00	C
ATOM	184	O	ALA	A	46	17.481	-4.625	-6.005	72.00	0.00	O
ATOM	185	N	ILE	A	47	18.976	-6.294	-5.798	59.42	0.00	N
ATOM	186	CA	ILE	A	47	18.234	-6.980	-4.747	59.42	0.00	C
ATOM	187	C	ILE	A	47	19.088	-7.165	-3.501	59.42	0.00	C
ATOM	188	O	ILE	A	47	20.067	-7.911	-3.511	59.42	0.00	O
ATOM	189	N	SER	A	48	18.712	-6.482	-2.425	66.56	0.00	N
ATOM	190	CA	SER	A	48	19.439	-6.576	-1.164	66.56	0.00	C
ATOM	191	C	SER	A	48	18.808	-7.610	-0.241	66.56	0.00	C
ATOM	192	O	SER	A	48	17.709	-8.102	-0.502	66.56	0.00	O
ATOM	193	N	GLN	A	49	19.508	-7.937	0.839	62.34	0.00	N
ATOM	194	CA	GLN	A	49	18.961	-8.810	1.873	62.34	0.00	C
ATOM	195	C	GLN	A	49	18.290	-8.003	2.977	62.34	0.00	C
ATOM	196	O	GLN	A	49	17.410	-8.504	3.676	62.34	0.00	O
ATOM	197	N	VAL	A	50	18.713	-6.753	3.129	62.33	0.00	N
ATOM	198	CA	VAL	A	50	18.189	-5.890	4.182	62.33	0.00	C
ATOM	199	C	VAL	A	50	16.787	-5.400	3.846	62.33	0.00	C
ATOM	200	O	VAL	A	50	15.921	-5.323	4.716	62.33	0.00	O
ATOM	201	N	TYR	A	51	16.569	-5.070	2.577	23.81	0.00	N
ATOM	202	CA	TYR	A	51	15.303	-4.493	2.142	23.81	0.00	C
ATOM	203	C	TYR	A	51	14.898	-5.024	0.773	23.81	0.00	C
ATOM	204	O	TYR	A	51	15.735	-5.510	0.012	23.81	0.00	O
ATOM	205	N	ALA	A	52	13.609	-4.928	0.464	43.17	0.00	N
ATOM	206	CA	ALA	A	52	13.081	-5.444	-0.793	43.17	0.00	C
ATOM	207	C	ALA	A	52	13.537	-4.592	-1.971	43.17	0.00	C
ATOM	208	O	ALA	A	52	13.737	-3.385	-1.837	43.17	0.00	O
ATOM	209	N	PRO	A	53	13.701	-5.229	-3.126	43.74	0.00	N
ATOM	210	CA	PRO	A	53	14.125	-4.529	-4.334	43.74	0.00	C
ATOM	211	C	PRO	A	53	13.085	-3.506	-4.771	43.74	0.00	C
ATOM	212	O	PRO	A	53	13.374	-2.616	-5.572	43.74	0.00	O
ATOM	213	N	SER	A	54	11.873	-3.637	-4.242	38.09	0.00	N
ATOM	214	CA	SER	A	54	10.808	-2.681	-4.520	38.09	0.00	C
ATOM	215	C	SER	A	54	11.169	-1.291	-4.008	38.09	0.00	C
ATOM	216	O	SER	A	54	10.608	-0.290	-4.456	38.09	0.00	O
ATOM	217	N	ALA	A	55	12.108	-1.237	-3.071	38.71	0.00	N
ATOM	218	CA	ALA	A	55	12.633	0.034	-2.585	38.71	0.00	C
ATOM	219	C	ALA	A	55	13.374	0.781	-3.686	38.71	0.00	C
ATOM	220	O	ALA	A	55	13.191	1.985	-3.865	38.71	0.00	O
ATOM	221	N	ILE	A	56	14.213	0.059	-4.423	47.01	0.00	N
ATOM	222	CA	ILE	A	56	15.015	0.660	-5.481	47.01	0.00	C
ATOM	223	C	ILE	A	56	14.155	1.024	-6.684	47.01	0.00	C
ATOM	224	O	ILE	A	56	14.272	2.119	-7.235	47.01	0.00	O

ATOM	225	N	LEU	A	57	13.290	0.101	-7.088	30.78	0.00	N
ATOM	226	CA	LEU	A	57	12.359	0.348	-8.182	30.78	0.00	C
ATOM	227	C	LEU	A	57	11.362	1.440	-7.821	30.78	0.00	C
ATOM	228	O	LEU	A	57	11.021	2.284	-8.651	30.78	0.00	O
ATOM	229	N	GLY	A	58	10.896	1.422	-6.577	41.70	0.00	N
ATOM	230	CA	GLY	A	58	9.983	2.446	-6.084	41.70	0.00	C
ATOM	231	C	GLY	A	58	10.639	3.820	-6.096	41.70	0.00	C
ATOM	232	O	GLY	A	58	10.012	4.815	-6.462	41.70	0.00	O
ATOM	233	N	ASP	A	59	11.904	3.870	-5.694	47.60	0.00	N
ATOM	234	CA	ASP	A	59	12.679	5.103	-5.756	47.60	0.00	C
ATOM	235	C	ASP	A	59	12.720	5.659	-7.173	47.60	0.00	C
ATOM	236	O	ASP	A	59	12.530	6.857	-7.387	47.60	0.00	O
ATOM	237	N	ILE	A	60	12.967	4.781	-8.140	48.47	0.00	N
ATOM	238	CA	ILE	A	60	12.964	5.169	-9.546	48.47	0.00	C
ATOM	239	C	ILE	A	60	11.595	5.684	-9.973	48.47	0.00	C
ATOM	240	O	ILE	A	60	11.490	6.702	-10.656	48.47	0.00	O
ATOM	241	N	LEU	A	61	10.548	4.976	-9.564	35.67	0.00	N
ATOM	242	CA	LEU	A	61	9.184	5.356	-9.909	35.67	0.00	C
ATOM	243	C	LEU	A	61	8.801	6.681	-9.263	35.67	0.00	C
ATOM	244	O	LEU	A	61	8.051	7.470	-9.839	35.67	0.00	O
ATOM	245	N	HIS	A	62	9.322	6.922	-8.064	37.96	0.00	N
ATOM	246	CA	HIS	A	62	9.016	8.141	-7.326	37.96	0.00	C
ATOM	247	C	HIS	A	62	9.746	9.340	-7.919	37.96	0.00	C
ATOM	248	O	HIS	A	62	9.257	10.469	-7.858	37.96	0.00	O
ATOM	249	N	LEU	A	63	10.919	9.090	-8.491	34.78	0.00	N
ATOM	250	CA	LEU	A	63	11.650	10.117	-9.221	34.78	0.00	C
ATOM	251	C	LEU	A	63	10.859	10.603	-10.429	34.78	0.00	C
ATOM	252	O	LEU	A	63	10.672	11.804	-10.618	34.78	0.00	O
ATOM	253	N	GLY	A	64	10.396	9.661	-11.244	36.31	0.00	N
ATOM	254	CA	GLY	A	64	9.577	9.989	-12.405	36.31	0.00	C
ATOM	255	C	GLY	A	64	8.251	10.611	-11.988	36.31	0.00	C
ATOM	256	O	GLY	A	64	7.772	11.556	-12.616	36.31	0.00	O
ATOM	257	N	LEU	A	65	7.661	10.076	-10.924	17.94	0.00	N
ATOM	258	CA	LEU	A	65	6.412	10.608	-10.393	17.94	0.00	C
ATOM	259	C	LEU	A	65	6.561	12.070	-9.994	17.94	0.00	C
ATOM	260	O	LEU	A	65	5.716	12.903	-10.321	17.94	0.00	O
ATOM	261	N	GLU	A	66	7.642	12.377	-9.284	54.01	0.00	N
ATOM	262	CA	GLU	A	66	7.918	13.745	-8.861	54.01	0.00	C
ATOM	263	C	GLU	A	66	8.073	14.671	-10.061	54.01	0.00	C
ATOM	264	O	GLU	A	66	7.549	15.786	-10.068	54.01	0.00	O
ATOM	265	N	SER	A	67	8.794	14.204	-11.075	46.40	0.00	N
ATOM	266	CA	SER	A	67	9.001	14.982	-12.290	46.40	0.00	C
ATOM	267	C	SER	A	67	7.675	15.334	-12.952	46.40	0.00	C
ATOM	268	O	SER	A	67	7.480	16.458	-13.413	46.40	0.00	O
ATOM	269	N	VAL	A	68	6.766	14.366	-12.993	51.69	0.00	N
ATOM	270	CA	VAL	A	68	5.454	14.573	-13.595	51.69	0.00	C
ATOM	271	C	VAL	A	68	4.602	15.514	-12.751	51.69	0.00	C
ATOM	272	O	VAL	A	68	3.969	16.431	-13.273	51.69	0.00	O
ATOM	273	N	LEU	A	69	4.591	15.278	-11.443	50.04	0.00	N
ATOM	274	CA	LEU	A	69	3.755	16.053	-10.533	50.04	0.00	C
ATOM	275	C	LEU	A	69	4.206	17.507	-10.474	50.04	0.00	C
ATOM	276	O	LEU	A	69	3.386	18.416	-10.348	50.04	0.00	O
ATOM	277	N	LYS	A	70	5.514	17.719	-10.566	52.71	0.00	N
ATOM	278	CA	LYS	A	70	6.078	19.062	-10.508	52.71	0.00	C
ATOM	279	C	LYS	A	70	5.368	20.001	-11.475	52.71	0.00	C
ATOM	280	O	LYS	A	70	5.007	21.121	-11.115	52.71	0.00	O
ATOM	281	N	GLY	A	71	5.171	19.537	-12.704	49.67	0.00	N
ATOM	282	CA	GLY	A	71	4.479	20.323	-13.717	49.67	0.00	C
ATOM	283	C	GLY	A	71	2.967	20.200	-13.575	49.67	0.00	C
ATOM	284	O	GLY	A	71	2.237	21.179	-13.734	49.67	0.00	O
ATOM	285	N	ASN	A	72	2.503	18.992	-13.272	49.24	0.00	N
ATOM	286	CA	ASN	A	72	1.073	18.722	-13.183	49.24	0.00	C
ATOM	287	C	ASN	A	72	0.749	17.874	-11.960	49.24	0.00	C
ATOM	288	O	ASN	A	72	0.626	16.653	-12.054	49.24	0.00	O
ATOM	289	N	PHE	A	73	0.609	18.529	-10.812	43.22	0.00	N
ATOM	290	CA	PHE	A	73	0.374	17.830	-9.555	43.22	0.00	C
ATOM	291	C	PHE	A	73	-0.940	17.060	-9.591	43.22	0.00	C
ATOM	292	O	PHE	A	73	-1.070	16.005	-8.970	43.22	0.00	O
ATOM	293	N	ASN	A	74	-1.914	17.595	-10.320	60.11	0.00	N
ATOM	294	CA	ASN	A	74	-3.255	17.022	-10.346	60.11	0.00	C
ATOM	295	C	ASN	A	74	-3.379	15.958	-11.427	60.11	0.00	C
ATOM	296	O	ASN	A	74	-4.459	15.410	-11.652	60.11	0.00	O
ATOM	297	N	ALA	A	75	-2.268	15.668	-12.096	54.45	0.00	N
ATOM	298	CA	ALA	A	75	-2.230	14.607	-13.095	54.45	0.00	C
ATOM	299	C	ALA	A	75	-2.141	13.234	-12.441	54.45	0.00	C
ATOM	300	O	ALA	A	75	-1.349	13.025	-11.522	54.45	0.00	O
ATOM	301	N	GLU	A	76	-2.959	12.303	-12.919	56.74	0.00	N
ATOM	302	CA	GLU	A	76	-2.994	10.957	-12.361	56.74	0.00	C
ATOM	303	C	GLU	A	76	-1.989	10.046	-13.054	56.74	0.00	C
ATOM	304	O	GLU	A	76	-2.204	9.619	-14.188	56.74	0.00	O
ATOM	305	N	THR	A	77	-0.890	9.753	-12.366	71.61	0.00	N
ATOM	306	CA	THR	A	77	0.103	8.814	-12.872	71.61	0.00	C
ATOM	307	C	THR	A	77	-0.322	7.374	-12.622	71.61	0.00	C
ATOM	308	O	THR	A	77	-0.623	6.992	-11.491	71.61	0.00	O
ATOM	309	N	GLU	A	78	-0.346	6.576	-13.684	74.39	0.00	N
ATOM	310	CA	GLU	A	78	-0.862	5.214	-13.608	74.39	0.00	C
ATOM	311	C	GLU	A	78	0.262	4.192	-13.736	74.39	0.00	C
ATOM	312	O	GLU	A	78	0.636	3.802	-14.842	74.39	0.00	O
ATOM	313	N	VAL	A	79	0.795	3.762	-12.598	55.67	0.00	N
ATOM	314	CA	VAL	A	79	1.814	2.719	-12.575	55.67	0.00	C
ATOM	315	C	VAL	A	79	1.203	1.358	-12.266	55.67	0.00	C
ATOM	316	O	VAL	A	79	0.630	1.154	-11.196	55.67	0.00	O

ATOM	317	N	GLU	A	80	1.329	0.431	-13.209	51.09	0.00	N
ATOM	318	CA	GLU	A	80	0.790	-0.914	-13.037	51.09	0.00	C
ATOM	319	C	GLU	A	80	1.486	-1.644	-11.896	51.09	0.00	C
ATOM	320	O	GLU	A	80	2.713	-1.718	-11.849	51.09	0.00	O
ATOM	321	N	THR	A	81	0.694	-2.182	-10.974	43.26	0.00	N
ATOM	322	CA	THR	A	81	1.222	-3.007	-9.895	43.26	0.00	C
ATOM	323	C	THR	A	81	0.981	-4.487	-10.163	43.26	0.00	C
ATOM	324	O	THR	A	81	-0.153	-4.910	-10.391	43.26	0.00	O
ATOM	325	N	LEU	A	82	2.053	-5.272	-10.136	50.29	0.00	N
ATOM	326	CA	LEU	A	82	1.955	-6.711	-10.344	50.29	0.00	C
ATOM	327	C	LEU	A	82	2.526	-7.479	-9.160	50.29	0.00	C
ATOM	328	O	LEU	A	82	3.699	-7.331	-8.819	50.29	0.00	O
ATOM	329	N	ARG	A	83	1.690	-8.301	-8.535	18.69	0.00	N
ATOM	330	CA	ARG	A	83	2.072	-9.000	-7.314	18.69	0.00	C
ATOM	331	C	ARG	A	83	1.652	-10.464	-7.364	18.69	0.00	C
ATOM	332	O	ARG	A	83	0.495	-10.779	-7.642	18.69	0.00	O
ATOM	333	N	GLU	A	84	2.599	-11.355	-7.092	14.28	0.00	N
ATOM	334	CA	GLU	A	84	2.286	-12.761	-6.860	14.28	0.00	C
ATOM	335	C	GLU	A	84	1.899	-13.006	-5.407	14.28	0.00	C
ATOM	336	O	GLU	A	84	2.754	-13.022	-4.521	14.28	0.00	O
ATOM	337	N	ILE	A	85	0.607	-13.196	-5.169	56.26	0.00	N
ATOM	338	CA	ILE	A	85	0.073	-13.226	-3.812	56.26	0.00	C
ATOM	339	C	ILE	A	85	-0.412	-14.621	-3.441	56.26	0.00	C
ATOM	340	O	ILE	A	85	-1.249	-15.202	-4.133	56.26	0.00	O
ATOM	341	N	ASN	A	86	0.117	-15.155	-2.346	40.06	0.00	N
ATOM	342	CA	ASN	A	86	-0.292	-16.467	-1.859	40.06	0.00	C
ATOM	343	C	ASN	A	86	-1.647	-16.401	-1.167	40.06	0.00	C
ATOM	344	O	ASN	A	86	-1.775	-15.830	-0.085	40.06	0.00	O
ATOM	345	N	VAL	A	87	-2.657	-16.989	-1.800	50.74	0.00	N
ATOM	346	CA	VAL	A	87	-4.005	-17.004	-1.244	50.74	0.00	C
ATOM	347	C	VAL	A	87	-4.441	-18.421	-0.894	50.74	0.00	C
ATOM	348	O	VAL	A	87	-4.785	-19.210	-1.776	50.74	0.00	O
ATOM	349	N	GLY	A	88	-4.426	-18.739	0.395	49.52	0.00	N
ATOM	350	CA	GLY	A	88	-4.904	-20.031	0.872	49.52	0.00	C
ATOM	351	C	GLY	A	88	-3.945	-21.150	0.486	49.52	0.00	C
ATOM	352	O	GLY	A	88	-4.337	-22.314	0.401	49.52	0.00	O
ATOM	353	N	GLY	A	89	-2.687	-20.790	0.255	48.06	0.00	N
ATOM	354	CA	GLY	A	89	-1.673	-21.761	-0.137	48.06	0.00	C
ATOM	355	C	GLY	A	89	-1.499	-21.798	-1.650	48.06	0.00	C
ATOM	356	O	GLY	A	89	-0.654	-22.525	-2.170	48.06	0.00	O
ATOM	357	N	LYS	A	90	-2.305	-21.008	-2.352	49.69	0.00	N
ATOM	358	CA	LYS	A	90	-2.242	-20.947	-3.807	49.69	0.00	C
ATOM	359	C	LYS	A	90	-1.870	-19.550	-4.284	49.69	0.00	C
ATOM	360	O	LYS	A	90	-2.650	-18.608	-4.146	49.69	0.00	O
ATOM	361	N	VAL	A	91	-0.673	-19.420	-4.847	50.28	0.00	N
ATOM	362	CA	VAL	A	91	-0.190	-18.135	-5.335	50.28	0.00	C
ATOM	363	C	VAL	A	91	-0.874	-17.748	-6.640	50.28	0.00	C
ATOM	364	O	VAL	A	91	-0.806	-18.479	-7.628	50.28	0.00	O
ATOM	365	N	TYR	A	92	-1.535	-16.595	-6.638	61.33	0.00	N
ATOM	366	CA	TYR	A	92	-2.205	-16.093	-7.831	61.33	0.00	C
ATOM	367	C	TYR	A	92	-1.548	-14.814	-8.335	61.33	0.00	C
ATOM	368	O	TYR	A	92	-1.100	-13.983	-7.546	61.33	0.00	O
ATOM	369	N	LYS	A	93	-1.495	-14.662	-9.654	75.56	0.00	N
ATOM	370	CA	LYS	A	93	-1.036	-13.421	-10.264	75.56	0.00	C
ATOM	371	C	LYS	A	93	-2.099	-12.336	-10.173	75.56	0.00	C
ATOM	372	O	LYS	A	93	-3.121	-12.393	-10.858	75.56	0.00	O
ATOM	373	N	ILE	A	94	-1.854	-11.344	-9.322	54.38	0.00	N
ATOM	374	CA	ILE	A	94	-2.834	-10.295	-9.066	54.38	0.00	C
ATOM	375	C	ILE	A	94	-2.268	-8.920	-9.396	54.38	0.00	C
ATOM	376	O	ILE	A	94	-1.149	-8.589	-9.005	54.38	0.00	O
ATOM	377	N	LYS	A	95	-3.049	-8.123	-10.117	65.40	0.00	N
ATOM	378	CA	LYS	A	95	-2.610	-6.796	-10.536	65.40	0.00	C
ATOM	379	C	LYS	A	95	-3.477	-5.707	-9.915	65.40	0.00	C
ATOM	380	O	LYS	A	95	-4.426	-5.997	-9.187	65.40	0.00	O
ATOM	381	N	GLY	A	96	-3.145	-4.456	-10.208	50.04	0.00	N
ATOM	382	CA	GLY	A	96	-4.026	-3.337	-9.899	50.04	0.00	C
ATOM	383	C	GLY	A	96	-3.231	-2.062	-9.647	50.04	0.00	C
ATOM	384	O	GLY	A	96	-2.071	-1.954	-10.043	50.04	0.00	O
ATOM	385	N	ARG	A	97	-3.863	-1.098	-8.984	43.71	0.00	N
ATOM	386	CA	ARG	A	97	-3.202	0.156	-8.642	43.71	0.00	C
ATOM	387	C	ARG	A	97	-4.031	0.963	-7.652	43.71	0.00	C
ATOM	388	O	ARG	A	97	-5.201	0.661	-7.415	43.71	0.00	O
ATOM	389	N	ALA	A	98	-3.419	1.990	-7.074	45.35	0.00	N
ATOM	390	CA	ALA	A	98	-4.127	2.902	-6.183	45.35	0.00	C
ATOM	391	C	ALA	A	98	-3.531	4.303	-6.240	45.35	0.00	C
ATOM	392	O	ALA	A	98	-2.354	4.475	-6.557	45.35	0.00	O
ATOM	393	N	ASP	A	99	-4.350	5.302	-5.932	52.70	0.00	N
ATOM	394	CA	ASP	A	99	-3.910	6.692	-5.966	52.70	0.00	C
ATOM	395	C	ASP	A	99	-4.496	7.484	-4.803	52.70	0.00	C
ATOM	396	O	ASP	A	99	-5.699	7.430	-4.547	52.70	0.00	O
ATOM	397	N	ALA	A	100	-3.638	8.219	-4.103	56.40	0.00	N
ATOM	398	CA	ALA	A	100	-4.090	9.164	-3.088	56.40	0.00	C
ATOM	399	C	ALA	A	100	-4.265	10.559	-3.674	56.40	0.00	C
ATOM	400	O	ALA	A	100	-3.508	10.974	-4.551	56.40	0.00	O
ATOM	401	N	ILE	A	101	-5.269	11.279	-3.183	52.13	0.00	N
ATOM	402	CA	ILE	A	101	-5.554	12.624	-3.669	52.13	0.00	C
ATOM	403	C	ILE	A	101	-5.525	13.637	-2.532	52.13	0.00	C
ATOM	404	O	ILE	A	101	-6.465	13.727	-1.742	52.13	0.00	O
ATOM	405	N	ILE	A	102	-4.440	14.400	-2.453	51.64	0.00	N
ATOM	406	CA	ILE	A	102	-4.299	15.429	-1.431	51.64	0.00	C
ATOM	407	C	ILE	A	102	-4.842	16.767	-1.917	51.64	0.00	C
ATOM	408	O	ILE	A	102	-4.306	17.362	-2.854	51.64	0.00	O



ATOM	409	N	ARG	A	103	-5.906	17.237	-1.277	49.29	0.00	N
ATOM	410	CA	ARG	A	103	-6.489	18.532	-1.604	49.29	0.00	C
ATOM	411	C	ARG	A	103	-6.093	19.589	-0.580	49.29	0.00	C
ATOM	412	O	ARG	A	103	-6.312	19.418	0.618	49.29	0.00	O
ATOM	413	N	ASN	A	104	-5.508	20.681	-1.061	45.99	0.00	N
ATOM	414	CA	ASN	A	104	-5.132	21.792	-0.195	45.99	0.00	C
ATOM	415	C	ASN	A	104	-6.217	22.861	-0.169	45.99	0.00	C
ATOM	416	O	ASN	A	104	-7.085	22.901	-1.041	45.99	0.00	O
ATOM	417	N	ASP	A	105	-6.164	23.727	0.838	43.08	0.00	N
ATOM	418	CA	ASP	A	105	-7.141	24.799	0.980	43.08	0.00	C
ATOM	419	C	ASP	A	105	-7.041	25.791	-0.172	43.08	0.00	C
ATOM	420	O	ASP	A	105	-8.000	26.499	-0.479	43.08	0.00	O
ATOM	421	N	ASN	A	106	-5.874	25.838	-0.805	50.08	0.00	N
ATOM	422	CA	ASN	A	106	-5.655	26.724	-1.942	50.08	0.00	C
ATOM	423	C	ASN	A	106	-6.260	26.145	-3.216	50.08	0.00	C
ATOM	424	O	ASN	A	106	-6.341	26.823	-4.240	50.08	0.00	O
ATOM	425	N	GLY	A	107	-6.684	24.887	-3.144	44.36	0.00	N
ATOM	426	CA	GLY	A	107	-7.288	24.217	-4.289	44.36	0.00	C
ATOM	427	C	GLY	A	107	-6.264	23.368	-5.033	44.36	0.00	C
ATOM	428	O	GLY	A	107	-6.555	22.812	-6.091	44.36	0.00	O
ATOM	429	N	LYS	A	108	-5.062	23.274	-4.472	50.81	0.00	N
ATOM	430	CA	LYS	A	108	-3.996	22.484	-5.075	50.81	0.00	C
ATOM	431	C	LYS	A	108	-4.222	20.993	-4.855	50.81	0.00	C
ATOM	432	O	LYS	A	108	-4.259	20.522	-3.717	50.81	0.00	O
ATOM	433	N	SER	A	109	-4.374	20.255	-5.948	55.18	0.00	N
ATOM	434	CA	SER	A	109	-4.595	18.815	-5.877	55.18	0.00	C
ATOM	435	C	SER	A	109	-3.332	18.046	-6.244	55.18	0.00	C
ATOM	436	O	SER	A	109	-2.792	18.205	-7.338	55.18	0.00	O
ATOM	437	N	ILE	A	110	-2.865	17.212	-5.321	54.55	0.00	N
ATOM	438	CA	ILE	A	110	-1.674	16.403	-5.552	54.55	0.00	C
ATOM	439	C	ILE	A	110	-2.012	14.917	-5.564	54.55	0.00	C
ATOM	440	O	ILE	A	110	-2.475	14.368	-4.564	54.55	0.00	O
ATOM	441	N	VAL	A	111	-1.776	14.271	-6.701	56.94	0.00	N
ATOM	442	CA	VAL	A	111	-2.064	12.849	-6.847	56.94	0.00	C
ATOM	443	C	VAL	A	111	-0.816	12.007	-6.620	56.94	0.00	C
ATOM	444	O	VAL	A	111	0.221	12.237	-7.242	56.94	0.00	O
ATOM	445	N	ILE	A	112	-0.922	11.032	-5.725	55.75	0.00	N
ATOM	446	CA	ILE	A	112	0.212	10.183	-5.379	55.75	0.00	C
ATOM	447	C	ILE	A	112	-0.040	8.735	-5.782	55.75	0.00	C
ATOM	448	O	ILE	A	112	-0.946	8.085	-5.262	55.75	0.00	O
ATOM	449	N	GLU	A	113	0.766	8.237	-6.713	47.46	0.00	N
ATOM	450	CA	GLU	A	113	0.744	6.822	-7.069	47.46	0.00	C
ATOM	451	C	GLU	A	113	1.080	5.947	-5.868	47.46	0.00	C
ATOM	452	O	GLU	A	113	2.105	6.141	-5.214	47.46	0.00	O
ATOM	453	N	ILE	A	114	0.211	4.983	-5.584	50.04	0.00	N
ATOM	454	CA	ILE	A	114	0.447	4.035	-4.502	50.04	0.00	C
ATOM	455	C	ILE	A	114	0.756	2.645	-5.044	50.04	0.00	C
ATOM	456	O	ILE	A	114	-0.012	2.092	-5.832	50.04	0.00	O
ATOM	457	N	LYS	A	115	1.883	2.086	-4.619	48.70	0.00	N
ATOM	458	CA	LYS	A	115	2.279	0.747	-5.035	48.70	0.00	C
ATOM	459	C	LYS	A	115	2.822	-0.058	-3.861	48.70	0.00	C
ATOM	460	O	LYS	A	115	3.929	0.193	-3.384	48.70	0.00	O
ATOM	461	N	THR	A	116	2.038	-1.025	-3.398	39.30	0.00	N
ATOM	462	CA	THR	A	116	2.376	-1.777	-2.195	39.30	0.00	C
ATOM	463	C	THR	A	116	3.144	-3.047	-2.537	39.30	0.00	C
ATOM	464	O	THR	A	116	3.309	-3.388	-3.710	39.30	0.00	O
ATOM	465	N	SER	A	117	3.613	-3.745	-1.508	35.66	0.00	N
ATOM	466	CA	SER	A	117	4.461	-4.914	-1.698	35.66	0.00	C
ATOM	467	C	SER	A	117	3.656	-6.203	-1.590	35.66	0.00	C
ATOM	468	O	SER	A	117	4.023	-7.226	-2.167	35.66	0.00	O
ATOM	469	N	ARG	A	118	2.556	-6.146	-0.846	2.77	0.00	N
ATOM	470	CA	ARG	A	118	1.725	-7.322	-0.616	2.77	0.00	C
ATOM	471	C	ARG	A	118	0.339	-6.929	-0.123	2.77	0.00	C
ATOM	472	O	ARG	A	118	0.135	-5.816	0.363	2.77	0.00	O
ATOM	473	N	SER	A	119	-0.612	-7.848	-0.250	43.98	0.00	N
ATOM	474	CA	SER	A	119	-1.941	-7.660	0.320	43.98	0.00	C
ATOM	475	C	SER	A	119	-2.739	-8.957	0.293	43.98	0.00	C
ATOM	476	O	SER	A	119	-2.706	-9.698	-0.689	43.98	0.00	O
ATOM	477	N	ASP	A	120	-3.459	-9.225	1.377	48.09	0.00	N
ATOM	478	CA	ASP	A	120	-4.126	-10.509	1.555	48.09	0.00	C
ATOM	479	C	ASP	A	120	-5.511	-10.503	0.921	48.09	0.00	C
ATOM	480	O	ASP	A	120	-6.459	-9.957	1.483	48.09	0.00	O
ATOM	481	N	LYS	A	121	-5.620	-11.114	-0.255	17.69	0.00	N
ATOM	482	CA	LYS	A	121	-6.899	-11.220	-0.946	17.69	0.00	C
ATOM	483	C	LYS	A	121	-7.938	-11.918	-0.079	17.69	0.00	C
ATOM	484	O	LYS	A	121	-9.135	-11.654	-0.193	17.69	0.00	O
ATOM	485	N	GLY	A	122	-7.474	-12.812	0.788	51.98	0.00	N
ATOM	486	CA	GLY	A	122	-8.368	-13.672	1.553	51.98	0.00	C
ATOM	487	C	GLY	A	122	-9.190	-12.865	2.549	51.98	0.00	C
ATOM	488	O	GLY	A	122	-10.196	-13.345	3.073	51.98	0.00	O
ATOM	489	N	LEU	A	123	-8.757	-11.636	2.808	66.67	0.00	N
ATOM	490	CA	LEU	A	123	-9.459	-10.756	3.735	66.67	0.00	C
ATOM	491	C	LEU	A	123	-10.801	-10.315	3.167	66.67	0.00	C
ATOM	492	O	LEU	A	123	-10.998	-10.305	1.952	66.67	0.00	O
ATOM	493	N	PRO	A	124	-11.722	-9.952	4.053	59.92	0.00	N
ATOM	494	CA	PRO	A	124	-13.007	-9.398	3.639	59.92	0.00	C
ATOM	495	C	PRO	A	124	-12.819	-8.212	2.703	59.92	0.00	C
ATOM	496	O	PRO	A	124	-11.840	-7.474	2.808	59.92	0.00	O
ATOM	497	N	LEU	A	125	-13.764	-8.034	1.785	44.28	0.00	N
ATOM	498	CA	LEU	A	125	-13.659	-6.994	0.769	44.28	0.00	C
ATOM	499	C	LEU	A	125	-13.431	-5.627	1.403	44.28	0.00	C
ATOM	500	O	LEU	A	125	-12.870	-4.727	0.776	44.28	0.00	O

ATOM	501	N	ILE	A	126	-13.870	-5.477	2.648	45.33	0.00	N
ATOM	502	CA	ILE	A	126	-13.682	-4.230	3.381	45.33	0.00	C
ATOM	503	C	ILE	A	126	-12.224	-3.793	3.361	45.33	0.00	C
ATOM	504	O	ILE	A	126	-11.924	-2.601	3.303	45.33	0.00	O
ATOM	505	N	HIS	A	127	-11.319	-4.766	3.410	35.63	0.00	N
ATOM	506	CA	HIS	A	127	-9.901	-4.484	3.600	35.63	0.00	C
ATOM	507	C	HIS	A	127	-9.333	-3.700	2.423	35.63	0.00	C
ATOM	508	O	HIS	A	127	-8.273	-3.083	2.530	35.63	0.00	O
ATOM	509	N	HIS	A	128	-10.043	-3.730	1.301	39.03	0.00	N
ATOM	510	CA	HIS	A	128	-9.643	-2.971	0.122	39.03	0.00	C
ATOM	511	C	HIS	A	128	-9.780	-1.473	0.358	39.03	0.00	C
ATOM	512	O	HIS	A	128	-8.834	-0.713	0.149	39.03	0.00	O
ATOM	513	N	LYS	A	129	-10.963	-1.053	0.796	61.21	0.00	N
ATOM	514	CA	LYS	A	129	-11.218	0.353	1.081	61.21	0.00	C
ATOM	515	C	LYS	A	129	-10.592	0.770	2.406	61.21	0.00	C
ATOM	516	O	LYS	A	129	-10.298	1.945	2.623	61.21	0.00	O
ATOM	517	N	MET	A	130	-10.391	-0.201	3.291	46.12	0.00	N
ATOM	518	CA	MET	A	130	-9.710	0.044	4.556	46.12	0.00	C
ATOM	519	C	MET	A	130	-8.259	0.450	4.331	46.12	0.00	C
ATOM	520	O	MET	A	130	-7.805	1.474	4.842	46.12	0.00	O
ATOM	521	N	GLN	A	131	-7.535	-0.357	3.563	56.30	0.00	N
ATOM	522	CA	GLN	A	131	-6.170	-0.024	3.174	56.30	0.00	C
ATOM	523	C	GLN	A	131	-6.106	1.342	2.502	56.30	0.00	C
ATOM	524	O	GLN	A	131	-5.254	2.166	2.831	56.30	0.00	O
ATOM	525	N	LEU	A	132	-7.013	1.574	1.559	53.92	0.00	N
ATOM	526	CA	LEU	A	132	-7.030	2.821	0.804	53.92	0.00	C
ATOM	527	C	LEU	A	132	-7.169	4.023	1.728	53.92	0.00	C
ATOM	528	O	LEU	A	132	-6.457	5.016	1.583	53.92	0.00	O
ATOM	529	N	GLN	A	133	-8.093	3.928	2.679	50.81	0.00	N
ATOM	530	CA	GLN	A	133	-8.322	5.004	3.636	50.81	0.00	C
ATOM	531	C	GLN	A	133	-7.134	5.166	4.576	50.81	0.00	C
ATOM	532	O	GLN	A	133	-6.812	6.277	4.998	50.81	0.00	O
ATOM	533	N	ILE	A	134	-6.486	4.053	4.901	59.98	0.00	N
ATOM	534	CA	ILE	A	134	-5.266	4.081	5.699	59.98	0.00	C
ATOM	535	C	ILE	A	134	-4.118	4.720	4.927	59.98	0.00	C
ATOM	536	O	ILE	A	134	-3.253	5.373	5.510	59.98	0.00	O
ATOM	537	N	TYR	A	135	-4.116	4.528	3.612	55.08	0.00	N
ATOM	538	CA	TYR	A	135	-3.146	5.183	2.743	55.08	0.00	C
ATOM	539	C	TYR	A	135	-3.415	6.679	2.646	55.08	0.00	C
ATOM	540	O	TYR	A	135	-2.488	7.480	2.536	55.08	0.00	O
ATOM	541	N	LEU	A	136	-4.690	7.049	2.688	49.84	0.00	N
ATOM	542	CA	LEU	A	136	-5.077	8.450	2.807	49.84	0.00	C
ATOM	543	C	LEU	A	136	-4.537	9.065	4.091	49.84	0.00	C
ATOM	544	O	LEU	A	136	-4.006	10.175	4.083	49.84	0.00	O
ATOM	545	N	TRP	A	137	-4.675	8.336	5.193	49.66	0.00	N
ATOM	546	CA	TRP	A	137	-4.039	8.718	6.449	49.66	0.00	C
ATOM	547	C	TRP	A	137	-2.540	8.918	6.268	49.66	0.00	C
ATOM	548	O	TRP	A	137	-1.983	9.929	6.696	49.66	0.00	O
ATOM	549	N	LEU	A	138	-1.891	7.948	5.633	53.75	0.00	N
ATOM	550	CA	LEU	A	138	-0.449	8.000	5.424	53.75	0.00	C
ATOM	551	C	LEU	A	138	-0.035	9.307	4.759	53.75	0.00	C
ATOM	552	O	LEU	A	138	0.918	9.957	5.187	53.75	0.00	O
ATOM	553	N	PHE	A	139	-0.758	9.686	3.711	48.93	0.00	N
ATOM	554	CA	PHE	A	139	-0.378	10.832	2.893	48.93	0.00	C
ATOM	555	C	PHE	A	139	-1.228	12.052	3.226	48.93	0.00	C
ATOM	556	O	PHE	A	139	-1.148	13.078	2.552	48.93	0.00	O
ATOM	557	N	SER	A	140	-2.043	11.932	4.269	50.30	0.00	N
ATOM	558	CA	SER	A	140	-2.911	13.025	4.691	50.30	0.00	C
ATOM	559	C	SER	A	140	-3.799	13.496	3.547	50.30	0.00	C
ATOM	560	O	SER	A	140	-4.050	14.692	3.395	50.30	0.00	O
ATOM	561	N	ALA	A	141	-4.273	12.550	2.743	48.21	0.00	N
ATOM	562	CA	ALA	A	141	-5.101	12.870	1.588	48.21	0.00	C
ATOM	563	C	ALA	A	141	-6.568	13.001	1.981	48.21	0.00	C
ATOM	564	O	ALA	A	141	-6.973	12.562	3.057	48.21	0.00	O
ATOM	565	N	GLU	A	142	-7.358	13.608	1.103	28.93	0.00	N
ATOM	566	CA	GLU	A	142	-8.783	13.791	1.353	28.93	0.00	C
ATOM	567	C	GLU	A	142	-9.619	12.854	0.491	28.93	0.00	C
ATOM	568	O	GLU	A	142	-10.706	12.435	0.888	28.93	0.00	O
ATOM	569	N	LYS	A	143	-9.105	12.528	-0.689	52.21	0.00	N
ATOM	570	CA	LYS	A	143	-9.728	11.527	-1.547	52.21	0.00	C
ATOM	571	C	LYS	A	143	-8.721	10.472	-1.984	52.21	0.00	C
ATOM	572	O	LYS	A	143	-7.518	10.620	-1.769	52.21	0.00	O
ATOM	573	N	GLY	A	144	-9.219	9.405	-2.601	52.67	0.00	N
ATOM	574	CA	GLY	A	144	-8.356	8.370	-3.160	52.67	0.00	C
ATOM	575	C	GLY	A	144	-9.162	7.355	-3.959	52.67	0.00	C
ATOM	576	O	GLY	A	144	-10.391	7.344	-3.907	52.67	0.00	O
ATOM	577	N	ILE	A	145	-8.461	6.502	-4.698	51.81	0.00	N
ATOM	578	CA	ILE	A	145	-9.110	5.491	-5.525	51.81	0.00	C
ATOM	579	C	ILE	A	145	-8.251	4.239	-5.642	51.81	0.00	C
ATOM	580	O	ILE	A	145	-7.023	4.320	-5.682	51.81	0.00	O
ATOM	581	N	LEU	A	146	-8.903	3.083	-5.698	54.22	0.00	N
ATOM	582	CA	LEU	A	146	-8.198	1.806	-5.697	54.22	0.00	C
ATOM	583	C	LEU	A	146	-8.839	0.824	-6.670	54.22	0.00	C
ATOM	584	O	LEU	A	146	-10.051	0.612	-6.645	54.22	0.00	O
ATOM	585	N	VAL	A	147	-8.017	0.227	-7.527	56.90	0.00	N
ATOM	586	CA	VAL	A	147	-8.482	-0.813	-8.437	56.90	0.00	C
ATOM	587	C	VAL	A	147	-7.746	-2.124	-8.197	56.90	0.00	C
ATOM	588	O	VAL	A	147	-6.521	-2.190	-8.307	56.90	0.00	O
ATOM	589	N	TYR	A	148	-8.499	-3.169	-7.868	56.66	0.00	N
ATOM	590	CA	TYR	A	148	-7.913	-4.453	-7.504	56.66	0.00	C
ATOM	591	C	TYR	A	148	-8.250	-5.523	-8.533	56.66	0.00	C
ATOM	592	O	TYR	A	148	-9.397	-5.958	-8.639	56.66	0.00	O

ATOM	593	N	ILE	A	149	-7.243	-5.947	-9.291	48.41	0.00	N
ATOM	594	CA	ILE	A	149	-7.464	-6.801	-10.451	48.41	0.00	C
ATOM	595	C	ILE	A	149	-7.029	-8.234	-10.171	48.41	0.00	C
ATOM	596	O	ILE	A	149	-5.836	-8.527	-10.090	48.41	0.00	O
ATOM	597	N	THR	A	150	-8.004	-9.125	-10.024	51.51	0.00	N
ATOM	598	CA	THR	A	150	-7.723	-10.535	-9.779	51.51	0.00	C
ATOM	599	C	THR	A	150	-8.141	-11.394	-10.965	51.51	0.00	C
ATOM	600	O	THR	A	150	-8.932	-10.966	-11.806	51.51	0.00	O
ATOM	601	N	PRO	A	151	-7.604	-12.607	-11.028	42.72	0.00	N
ATOM	602	CA	PRO	A	151	-8.004	-13.570	-12.046	42.72	0.00	C
ATOM	603	C	PRO	A	151	-9.510	-13.806	-12.020	42.72	0.00	C
ATOM	604	O	PRO	A	151	-10.111	-14.152	-13.037	42.72	0.00	O
ATOM	605	N	ASP	A	152	-10.113	-13.616	-10.852	49.44	0.00	N
ATOM	606	CA	ASP	A	152	-11.548	-13.815	-10.690	49.44	0.00	C
ATOM	607	C	ASP	A	152	-12.335	-12.644	-11.264	49.44	0.00	C
ATOM	608	O	ASP	A	152	-13.229	-12.830	-12.090	49.44	0.00	O
ATOM	609	N	ARG	A	153	-11.997	-11.438	-10.822	50.16	0.00	N
ATOM	610	CA	ARG	A	153	-12.718	-10.240	-11.237	50.16	0.00	C
ATOM	611	C	ARG	A	153	-11.969	-8.978	-10.831	50.16	0.00	C
ATOM	612	O	ARG	A	153	-10.963	-9.041	-10.126	50.16	0.00	O
ATOM	613	N	ILE	A	154	-12.466	-7.831	-11.281	49.79	0.00	N
ATOM	614	CA	ILE	A	154	-11.872	-6.547	-10.927	49.79	0.00	C
ATOM	615	C	ILE	A	154	-12.769	-5.769	-9.974	49.79	0.00	C
ATOM	616	O	ILE	A	154	-13.904	-5.430	-10.310	49.79	0.00	O
ATOM	617	N	ALA	A	155	-12.254	-5.487	-8.782	50.43	0.00	N
ATOM	618	CA	ALA	A	155	-13.002	-4.732	-7.784	50.43	0.00	C
ATOM	619	C	ALA	A	155	-12.555	-3.276	-7.746	50.43	0.00	C
ATOM	620	O	ALA	A	155	-11.360	-2.985	-7.702	50.43	0.00	O
ATOM	621	N	GLU	A	156	-13.522	-2.365	-7.764	50.47	0.00	N
ATOM	622	CA	GLU	A	156	-13.228	-0.938	-7.799	50.47	0.00	C
ATOM	623	C	GLU	A	156	-13.694	-0.248	-6.524	50.47	0.00	C
ATOM	624	O	GLU	A	156	-14.822	-0.449	-6.074	50.47	0.00	O
ATOM	625	N	TYR	A	157	-12.819	0.568	-5.944	38.52	0.00	N
ATOM	626	CA	TYR	A	157	-13.153	1.318	-4.739	38.52	0.00	C
ATOM	627	C	TYR	A	157	-12.754	2.781	-4.874	38.52	0.00	C
ATOM	628	O	TYR	A	157	-11.762	3.108	-5.525	38.52	0.00	O
ATOM	629	N	GLU	A	158	-13.534	3.661	-4.253	47.79	0.00	N
ATOM	630	CA	GLU	A	158	-13.259	5.091	-4.295	47.79	0.00	C
ATOM	631	C	GLU	A	158	-13.680	5.772	-3.000	47.79	0.00	C
ATOM	632	O	GLU	A	158	-14.786	5.553	-2.502	47.79	0.00	O
ATOM	633	N	ILE	A	159	-12.794	6.599	-2.456	53.24	0.00	N
ATOM	634	CA	ILE	A	159	-13.075	7.318	-1.219	53.24	0.00	C
ATOM	635	C	ILE	A	159	-13.140	8.821	-1.458	53.24	0.00	C
ATOM	636	O	ILE	A	159	-12.178	9.426	-1.933	53.24	0.00	O
ATOM	637	N	ASN	A	160	-14.279	9.420	-1.127	60.63	0.00	N
ATOM	638	CA	ASN	A	160	-14.433	10.868	-1.200	60.63	0.00	C
ATOM	639	C	ASN	A	160	-14.303	11.506	0.177	60.63	0.00	C
ATOM	640	O	ASN	A	160	-13.991	12.691	0.295	60.63	0.00	O
ATOM	641	N	GLU	A	161	-14.544	10.715	1.216	50.70	0.00	N
ATOM	642	CA	GLU	A	161	-14.460	11.204	2.587	50.70	0.00	C
ATOM	643	C	GLU	A	161	-13.012	11.417	3.008	50.70	0.00	C
ATOM	644	O	GLU	A	161	-12.178	10.523	2.873	50.70	0.00	O
ATOM	645	N	PRO	A	162	-12.720	12.609	3.518	52.96	0.00	N
ATOM	646	CA	PRO	A	162	-11.372	12.942	3.963	52.96	0.00	C
ATOM	647	C	PRO	A	162	-10.992	12.154	5.209	52.96	0.00	C
ATOM	648	O	PRO	A	162	-11.838	11.862	6.053	52.96	0.00	O
ATOM	649	N	LEU	A	163	-9.713	11.809	5.317	52.16	0.00	N
ATOM	650	CA	LEU	A	163	-9.228	11.005	6.433	52.16	0.00	C
ATOM	651	C	LEU	A	163	-8.789	11.885	7.597	52.16	0.00	C
ATOM	652	O	LEU	A	163	-7.630	12.288	7.679	52.16	0.00	O
ATOM	653	N	ASP	A	164	-9.725	12.179	8.494	57.09	0.00	N
ATOM	654	CA	ASP	A	164	-9.415	12.930	9.704	57.09	0.00	C
ATOM	655	C	ASP	A	164	-9.518	12.048	10.942	57.09	0.00	C
ATOM	656	O	ASP	A	164	-9.729	10.840	10.839	57.09	0.00	O
ATOM	657	N	GLU	A	165	-9.369	12.660	12.112	61.08	0.00	N
ATOM	658	CA	GLU	A	165	-9.411	11.926	13.371	61.08	0.00	C
ATOM	659	C	GLU	A	165	-10.729	11.178	13.528	61.08	0.00	C
ATOM	660	O	GLU	A	165	-10.750	10.012	13.924	61.08	0.00	O
ATOM	661	N	ALA	A	166	-11.829	11.856	13.218	53.69	0.00	N
ATOM	662	CA	ALA	A	166	-13.156	11.271	13.360	53.69	0.00	C
ATOM	663	C	ALA	A	166	-13.324	10.058	12.453	53.69	0.00	C
ATOM	664	O	ALA	A	166	-13.949	9.069	12.832	53.69	0.00	O
ATOM	665	N	THR	A	167	-12.762	10.143	11.252	50.62	0.00	N
ATOM	666	CA	THR	A	167	-12.809	9.036	10.305	50.62	0.00	C
ATOM	667	C	THR	A	167	-11.999	7.847	10.805	50.62	0.00	C
ATOM	668	O	THR	A	167	-12.410	6.696	10.658	50.62	0.00	O
ATOM	669	N	ILE	A	168	-10.844	8.133	11.398	56.16	0.00	N
ATOM	670	CA	ILE	A	168	-10.014	7.095	11.998	56.16	0.00	C
ATOM	671	C	ILE	A	168	-10.759	6.368	13.109	56.16	0.00	C
ATOM	672	O	ILE	A	168	-10.712	5.141	13.202	56.16	0.00	O
ATOM	673	N	VAL	A	169	-11.447	7.131	13.952	58.37	0.00	N
ATOM	674	CA	VAL	A	169	-12.234	6.557	15.036	58.37	0.00	C
ATOM	675	C	VAL	A	169	-13.375	5.704	14.498	58.37	0.00	C
ATOM	676	O	VAL	A	169	-13.654	4.623	15.018	58.37	0.00	O
ATOM	677	N	ARG	A	170	-14.033	6.195	13.453	59.48	0.00	N
ATOM	678	CA	ARG	A	170	-15.111	5.455	12.809	59.48	0.00	C
ATOM	679	C	ARG	A	170	-14.615	4.122	12.264	59.48	0.00	C
ATOM	680	O	ARG	A	170	-15.248	3.085	12.464	59.48	0.00	O
ATOM	681	N	LEU	A	171	-13.481	4.156	11.574	49.98	0.00	N
ATOM	682	CA	LEU	A	171	-12.902	2.952	10.990	49.98	0.00	C
ATOM	683	C	LEU	A	171	-12.490	1.960	12.068	49.98	0.00	C
ATOM	684	O	LEU	A	171	-12.612	0.748	11.890	49.98	0.00	O

ATOM	685	N	ALA	A	172	-12.002	2.481	13.189	58.47	0.00	N
ATOM	686	CA	ALA	A	172	-11.698	1.653	14.350	58.47	0.00	C
ATOM	687	C	ALA	A	172	-12.945	0.949	14.867	58.47	0.00	C
ATOM	688	O	ALA	A	172	-12.945	-0.263	15.078	58.47	0.00	O
ATOM	689	N	GLU	A	173	-14.011	1.718	15.071	69.53	0.00	N
ATOM	690	CA	GLU	A	173	-15.255	1.176	15.603	69.53	0.00	C
ATOM	691	C	GLU	A	173	-15.873	0.167	14.643	69.53	0.00	C
ATOM	692	O	GLU	A	173	-16.553	-0.769	15.065	69.53	0.00	O
ATOM	693	N	ASP	A	174	-15.629	0.361	13.351	57.67	0.00	N
ATOM	694	CA	ASP	A	174	-16.150	-0.539	12.330	57.67	0.00	C
ATOM	695	C	ASP	A	174	-15.596	-1.948	12.504	57.67	0.00	C
ATOM	696	O	ASP	A	174	-16.242	-2.930	12.137	57.67	0.00	O
ATOM	697	N	THR	A	175	-14.396	-2.041	13.066	51.60	0.00	N
ATOM	698	CA	THR	A	175	-13.741	-3.329	13.267	51.60	0.00	C
ATOM	699	C	THR	A	175	-13.899	-3.810	14.703	51.60	0.00	C
ATOM	700	O	THR	A	175	-13.870	-5.010	14.974	51.60	0.00	O
ATOM	701	N	ILE	A	176	-14.065	-2.864	15.623	44.53	0.00	N
ATOM	702	CA	ILE	A	176	-14.351	-3.193	17.015	44.53	0.00	C
ATOM	703	C	ILE	A	176	-15.669	-3.944	17.144	44.53	0.00	C
ATOM	704	O	ILE	A	176	-15.787	-4.878	17.938	44.53	0.00	O
ATOM	705	N	MET	A	177	-16.660	-3.533	16.361	55.85	0.00	N
ATOM	706	CA	MET	A	177	-17.988	-4.128	16.428	55.85	0.00	C
ATOM	707	C	MET	A	177	-18.147	-5.238	15.398	55.85	0.00	C
ATOM	708	O	MET	A	177	-19.247	-5.745	15.179	55.85	0.00	O
ATOM	709	N	LEU	A	178	-17.040	-5.614	14.765	59.55	0.00	N
ATOM	710	CA	LEU	A	178	-17.061	-6.635	13.725	59.55	0.00	C
ATOM	711	C	LEU	A	178	-16.166	-7.812	14.090	59.55	0.00	C
ATOM	712	O	LEU	A	178	-14.962	-7.650	14.291	59.55	0.00	O
ATOM	713	N	GLN	A	179	-16.760	-8.997	14.174	54.12	0.00	N
ATOM	714	CA	GLN	A	179	-16.018	-10.204	14.515	54.12	0.00	C
ATOM	715	C	GLN	A	179	-15.066	-10.602	13.394	54.12	0.00	C
ATOM	716	O	GLN	A	179	-13.882	-10.846	13.628	54.12	0.00	O
ATOM	717	N	ASN	A	180	-15.590	-10.666	12.175	48.75	0.00	N
ATOM	718	CA	ASN	A	180	-14.781	-11.001	11.009	48.75	0.00	C
ATOM	719	C	ASN	A	180	-14.136	-9.758	10.411	48.75	0.00	C
ATOM	720	O	ASN	A	180	-14.413	-9.392	9.268	48.75	0.00	O
ATOM	721	N	SER	A	181	-13.277	-9.110	11.190	62.92	0.00	N
ATOM	722	CA	SER	A	181	-12.619	-7.885	10.751	62.92	0.00	C
ATOM	723	C	SER	A	181	-11.434	-8.190	9.843	62.92	0.00	C
ATOM	724	O	SER	A	181	-10.838	-9.264	9.925	62.92	0.00	O
ATOM	725	N	PRO	A	182	-11.098	-7.240	8.977	62.16	0.00	N
ATOM	726	CA	PRO	A	182	-9.967	-7.395	8.071	62.16	0.00	C
ATOM	727	C	PRO	A	182	-8.644	-7.269	8.814	62.16	0.00	C
ATOM	728	O	PRO	A	182	-8.618	-6.997	10.014	62.16	0.00	O
ATOM	729	N	ARG	A	183	-7.545	-7.472	8.094	55.41	0.00	N
ATOM	730	CA	ARG	A	183	-6.214	-7.307	8.666	55.41	0.00	C
ATOM	731	C	ARG	A	183	-5.410	-6.265	7.899	55.41	0.00	C
ATOM	732	O	ARG	A	183	-5.899	-5.676	6.936	55.41	0.00	O
ATOM	733	N	PHE	A	184	-4.174	-6.042	8.333	42.08	0.00	N
ATOM	734	CA	PHE	A	184	-3.260	-5.161	7.617	42.08	0.00	C
ATOM	735	C	PHE	A	184	-1.809	-5.572	7.842	42.08	0.00	C
ATOM	736	O	PHE	A	184	-1.504	-6.328	8.764	42.08	0.00	O
ATOM	737	N	ASN	A	185	-0.919	-5.070	6.992	36.30	0.00	N
ATOM	738	CA	ASN	A	185	0.497	-5.403	7.082	36.30	0.00	C
ATOM	739	C	ASN	A	185	1.075	-4.990	8.431	36.30	0.00	C
ATOM	740	O	ASN	A	185	1.114	-3.806	8.764	36.30	0.00	O
ATOM	741	N	TRP	A	186	1.523	-5.975	9.203	34.90	0.00	N
ATOM	742	CA	TRP	A	186	1.956	-5.736	10.574	34.90	0.00	C
ATOM	743	C	TRP	A	186	3.144	-4.783	10.620	34.90	0.00	C
ATOM	744	O	TRP	A	186	3.358	-4.091	11.614	34.90	0.00	O
ATOM	745	N	GLU	A	187	3.913	-4.753	9.537	46.05	0.00	N
ATOM	746	CA	GLU	A	187	5.099	-3.908	9.463	46.05	0.00	C
ATOM	747	C	GLU	A	187	4.725	-2.431	9.488	46.05	0.00	C
ATOM	748	O	GLU	A	187	5.479	-1.600	9.992	46.05	0.00	O
ATOM	749	N	CYS	A	188	3.558	-2.112	8.941	53.49	0.00	N
ATOM	750	CA	CYS	A	188	3.076	-0.736	8.910	53.49	0.00	C
ATOM	751	C	CYS	A	188	2.514	-0.320	10.263	53.49	0.00	C
ATOM	752	O	CYS	A	188	1.668	-1.008	10.834	53.49	0.00	O
ATOM	753	N	LYS	A	189	2.990	0.812	10.773	40.03	0.00	N
ATOM	754	CA	LYS	A	189	2.582	1.291	12.087	40.03	0.00	C
ATOM	755	C	LYS	A	189	1.621	2.467	11.971	40.03	0.00	C
ATOM	756	O	LYS	A	189	1.108	2.965	12.973	40.03	0.00	O
ATOM	757	N	TYR	A	190	1.379	2.907	10.740	37.23	0.00	N
ATOM	758	CA	TYR	A	190	0.476	4.025	10.490	37.23	0.00	C
ATOM	759	C	TYR	A	190	-0.953	3.542	10.275	37.23	0.00	C
ATOM	760	O	TYR	A	190	-1.852	4.336	9.999	37.23	0.00	O
ATOM	761	N	CYS	A	191	-1.156	2.235	10.402	43.81	0.00	N
ATOM	762	CA	CYS	A	191	-2.475	1.643	10.217	43.81	0.00	C
ATOM	763	C	CYS	A	191	-3.212	1.510	11.543	43.81	0.00	C
ATOM	764	O	CYS	A	191	-2.591	1.446	12.605	43.81	0.00	O
ATOM	765	N	ILE	A	192	-4.538	1.470	11.476	41.27	0.00	N
ATOM	766	CA	ILE	A	192	-5.361	1.335	12.672	41.27	0.00	C
ATOM	767	C	ILE	A	192	-5.216	-0.050	13.287	41.27	0.00	C
ATOM	768	O	ILE	A	192	-5.561	-1.056	12.666	41.27	0.00	O
ATOM	769	N	PHE	A	193	-4.704	-0.097	14.512	42.93	0.00	N
ATOM	770	CA	PHE	A	193	-4.322	-1.359	15.135	42.93	0.00	C
ATOM	771	C	PHE	A	193	-5.546	-2.123	15.627	42.93	0.00	C
ATOM	772	O	PHE	A	193	-5.497	-3.338	15.814	42.93	0.00	O
ATOM	773	N	SER	A	194	-6.643	-1.401	15.835	34.28	0.00	N
ATOM	774	CA	SER	A	194	-7.890	-2.014	16.275	34.28	0.00	C
ATOM	775	C	SER	A	194	-8.550	-2.794	15.145	34.28	0.00	C
ATOM	776	O	SER	A	194	-9.547	-3.486	15.354	34.28	0.00	O

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ATOM 777 N VAL A 195 -7.988 -2.678 13.946 39.35 0.00 N
ATOM 778 CA VAL A 195 -8.430 -3.481 12.812 39.35 0.00 C
ATOM 779 C VAL A 195 -8.156 -4.962 13.045 39.35 0.00 C
ATOM 780 O VAL A 195 -8.973 -5.815 12.701 39.35 0.00 O
ATOM 781 N ILE A 196 -7.002 -5.259 13.633 37.38 0.00 N
ATOM 782 CA ILE A 196 -6.609 -6.638 13.894 37.38 0.00 C
ATOM 783 C ILE A 196 -6.961 -7.051 15.318 37.38 0.00 C
ATOM 784 O ILE A 196 -7.494 -8.138 15.545 37.38 0.00 O
ATOM 785 N CYS A 197 -6.661 -6.179 16.273 52.86 0.00 N
ATOM 786 CA CYS A 197 -6.797 -6.513 17.686 52.86 0.00 C
ATOM 787 C CYS A 197 -7.147 -5.282 18.511 52.86 0.00 C
ATOM 788 O CYS A 197 -6.269 -4.629 19.074 52.86 0.00 O
ATOM 789 N PRO A 198 -8.437 -4.969 18.581 49.63 0.00 N
ATOM 790 CA PRO A 198 -8.914 -3.855 19.391 49.63 0.00 C
ATOM 791 C PRO A 198 -8.736 -4.139 20.877 49.63 0.00 C
ATOM 792 O PRO A 198 -8.658 -3.218 21.689 49.63 0.00 O
ATOM 793 N ALA A 199 -8.675 -5.419 21.226 49.32 0.00 N
ATOM 794 CA ALA A 199 -8.504 -5.827 22.615 49.32 0.00 C
ATOM 795 C ALA A 199 -7.152 -5.382 23.158 49.32 0.00 C
ATOM 796 O ALA A 199 -7.015 -5.094 24.347 49.32 0.00 O
ATOM 797 N LYS A 200 -6.157 -5.326 22.280 64.63 0.00 N
ATOM 798 CA LYS A 200 -4.826 -4.869 22.660 64.63 0.00 C
ATOM 799 C LYS A 200 -4.666 -3.374 22.413 64.63 0.00 C
ATOM 800 O LYS A 200 -4.394 -2.609 23.338 64.63 0.00 O
ATOM 801 N LEU A 201 -4.838 -2.964 21.162 49.70 0.00 N
ATOM 802 CA LEU A 201 -4.684 -1.563 20.787 49.70 0.00 C
ATOM 803 C LEU A 201 -5.983 -0.996 20.228 49.70 0.00 C
ATOM 804 O LEU A 201 -6.253 -1.099 19.032 49.70 0.00 O
ATOM 805 N THR A 202 -6.785 -0.398 21.102 50.36 0.00 N
ATOM 806 CA THR A 202 -8.031 0.237 20.688 50.36 0.00 C
ATOM 807 C THR A 202 -7.765 1.521 19.913 50.36 0.00 C
ATOM 808 O THR A 202 -8.090 1.613 18.971 50.36 0.00 O
TER 809 THR A 202
ENDMDL
END
REMARK 1 *****
REMARK 1 Start File DEC2_vs_NAT_dSi_colored.pdb
REMARK 1 The occupancy record was modified to represent dSi := Si(DEC)-Si(NAT).
REMARK 1 Occ=0.00 means dSi=-1.461482 kB; Occ=99.99 means dSi=1.491450 kB.
MODEL
O
ATOM 1 N MET A 1 13.208 10.652 1.184 37.22 0.00 N
ATOM 2 CA MET A 1 13.950 9.398 1.239 37.22 0.00 C
ATOM 3 C MET A 1 14.997 9.328 0.135 37.22 0.00 C
ATOM 4 O MET A 1 16.179 9.584 0.368 37.22 0.00 O
ATOM 5 N ILE A 2 14.555 8.981 -1.070 27.40 0.00 N
ATOM 6 CA ILE A 2 15.469 8.753 -2.184 27.40 0.00 C
ATOM 7 C ILE A 2 16.216 10.028 -2.553 27.40 0.00 C
ATOM 8 O ILE A 2 17.408 9.993 -2.858 27.40 0.00 O
ATOM 9 N THR A 3 15.509 11.153 -2.524 41.96 0.00 N
ATOM 10 CA THR A 3 16.109 12.443 -2.836 41.96 0.00 C
ATOM 11 C THR A 3 17.319 12.716 -1.951 41.96 0.00 C
ATOM 12 O THR A 3 18.385 13.092 -2.440 41.96 0.00 O
ATOM 13 N GLU A 4 17.148 12.526 -0.648 43.40 0.00 N
ATOM 14 CA GLU A 4 18.230 12.736 0.307 43.40 0.00 C
ATOM 15 C GLU A 4 19.378 11.765 0.059 43.40 0.00 C
ATOM 16 O GLU A 4 20.547 12.143 0.120 43.40 0.00 O
ATOM 17 N PHE A 5 19.036 10.511 -0.221 31.36 0.00 N
ATOM 18 CA PHE A 5 20.037 9.482 -0.474 31.36 0.00 C
ATOM 19 C PHE A 5 20.897 9.835 -1.680 31.36 0.00 C
ATOM 20 O PHE A 5 22.119 9.690 -1.647 31.36 0.00 O
ATOM 21 N LEU A 6 20.252 10.298 -2.744 28.08 0.00 N
ATOM 22 CA LEU A 6 20.947 10.600 -3.990 28.08 0.00 C
ATOM 23 C LEU A 6 21.839 11.826 -3.840 28.08 0.00 C
ATOM 24 O LEU A 6 22.974 11.842 -4.318 28.08 0.00 O
ATOM 25 N LEU A 7 21.320 12.852 -3.174 47.44 0.00 N
ATOM 26 CA LEU A 7 22.075 14.077 -2.943 47.44 0.00 C
ATOM 27 C LEU A 7 23.280 13.821 -2.048 47.44 0.00 C
ATOM 28 O LEU A 7 24.363 14.361 -2.277 47.44 0.00 O
ATOM 29 N LYS A 8 23.087 12.992 -1.027 29.50 0.00 N
ATOM 30 CA LYS A 8 24.178 12.596 -0.146 29.50 0.00 C
ATOM 31 C LYS A 8 25.300 11.922 -0.926 29.50 0.00 C
ATOM 32 O LYS A 8 26.461 12.317 -0.828 29.50 0.00 O
ATOM 33 N LYS A 9 24.946 10.902 -1.700 0.00 0.00 N
ATOM 34 CA LYS A 9 25.935 10.087 -2.395 0.00 0.00 C
ATOM 35 C LYS A 9 26.461 10.797 -3.635 0.00 0.00 C
ATOM 36 O LYS A 9 27.532 10.466 -4.144 0.00 0.00 O
ATOM 37 N LYS A 10 25.703 11.776 -4.117 56.51 0.00 N
ATOM 38 CA LYS A 10 26.183 12.674 -5.159 56.51 0.00 C
ATOM 39 C LYS A 10 27.364 13.505 -4.672 56.51 0.00 C
ATOM 40 O LYS A 10 28.363 13.653 -5.374 56.51 0.00 O
ATOM 41 N LEU A 11 27.241 14.045 -3.464 56.08 0.00 N
ATOM 42 CA LEU A 11 28.329 14.791 -2.844 56.08 0.00 C
ATOM 43 C LEU A 11 29.495 13.876 -2.494 56.08 0.00 C
ATOM 44 O LEU A 11 30.657 14.273 -2.582 56.08 0.00 O
ATOM 45 N GLU A 12 29.178 12.648 -2.097 40.56 0.00 N
ATOM 46 CA GLU A 12 30.200 11.647 -1.811 40.56 0.00 C
ATOM 47 C GLU A 12 30.978 11.279 -3.068 40.56 0.00 C
ATOM 48 O GLU A 12 32.180 11.021 -3.012 40.56 0.00 O
ATOM 49 N GLU A 13 30.284 11.255 -4.201 43.09 0.00 N
ATOM 50 CA GLU A 13 30.931 11.044 -5.490 43.09 0.00 C
ATOM 51 C GLU A 13 31.823 12.222 -5.859 43.09 0.00 C
ATOM 52 O GLU A 13 32.930 12.041 -6.365 43.09 0.00 O

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ATOM	53	N	HIS	A	14	31.334	13.432	-5.601	62.74	0.00	N
ATOM	54	CA	HIS	A	14	32.102	14.641	-5.869	62.74	0.00	C
ATOM	55	C	HIS	A	14	33.423	14.635	-5.112	62.74	0.00	C
ATOM	56	O	HIS	A	14	34.457	15.044	-5.642	62.74	0.00	O
ATOM	57	N	LEU	A	15	33.384	14.169	-3.868	54.44	0.00	N
ATOM	58	CA	LEU	A	15	34.585	14.074	-3.047	54.44	0.00	C
ATOM	59	C	LEU	A	15	35.462	12.910	-3.486	54.44	0.00	C
ATOM	60	O	LEU	A	15	36.677	13.053	-3.626	54.44	0.00	O
ATOM	61	N	SER	A	16	34.840	11.756	-3.702	50.75	0.00	N
ATOM	62	CA	SER	A	16	35.567	10.557	-4.102	50.75	0.00	C
ATOM	63	C	SER	A	16	34.737	9.700	-5.050	50.75	0.00	C
ATOM	64	O	SER	A	16	34.060	8.764	-4.625	50.75	0.00	O
ATOM	65	N	HIS	A	17	34.795	10.026	-6.337	47.33	0.00	N
ATOM	66	CA	HIS	A	17	33.972	9.352	-7.335	47.33	0.00	C
ATOM	67	C	HIS	A	17	34.395	7.899	-7.508	47.33	0.00	C
ATOM	68	O	HIS	A	17	33.632	7.077	-8.013	47.33	0.00	O
ATOM	69	N	VAL	A	18	35.615	7.589	-7.084	46.62	0.00	N
ATOM	70	CA	VAL	A	18	36.121	6.223	-7.138	46.62	0.00	C
ATOM	71	C	VAL	A	18	35.542	5.377	-6.011	46.62	0.00	C
ATOM	72	O	VAL	A	18	35.530	4.148	-6.087	46.62	0.00	O
ATOM	73	N	LYS	A	19	35.061	6.041	-4.966	50.02	0.00	N
ATOM	74	CA	LYS	A	19	34.504	5.351	-3.809	50.02	0.00	C
ATOM	75	C	LYS	A	19	32.991	5.220	-3.920	50.02	0.00	C
ATOM	76	O	LYS	A	19	32.455	4.112	-3.952	50.02	0.00	O
ATOM	77	N	GLU	A	20	32.307	6.357	-3.979	23.75	0.00	N
ATOM	78	CA	GLU	A	20	30.849	6.372	-4.019	23.75	0.00	C
ATOM	79	C	GLU	A	20	30.339	6.969	-5.325	23.75	0.00	C
ATOM	80	O	GLU	A	20	31.031	7.758	-5.969	23.75	0.00	O
ATOM	81	N	GLU	A	21	29.127	6.586	-5.711	36.12	0.00	N
ATOM	82	CA	GLU	A	21	28.493	7.137	-6.903	36.12	0.00	C
ATOM	83	C	GLU	A	21	27.108	7.686	-6.586	36.12	0.00	C
ATOM	84	O	GLU	A	21	26.530	7.376	-5.544	36.12	0.00	O
ATOM	85	N	ASN	A	22	26.579	8.503	-7.491	44.32	0.00	N
ATOM	86	CA	ASN	A	22	25.247	9.072	-7.325	44.32	0.00	C
ATOM	87	C	ASN	A	22	24.169	8.014	-7.520	44.32	0.00	C
ATOM	88	O	ASN	A	22	23.479	7.997	-8.539	44.32	0.00	O
ATOM	89	N	THR	A	23	24.027	7.131	-6.536	60.13	0.00	N
ATOM	90	CA	THR	A	23	23.005	6.094	-6.579	60.13	0.00	C
ATOM	91	C	THR	A	23	22.565	5.694	-5.176	60.13	0.00	C
ATOM	92	O	THR	A	23	22.987	6.296	-4.189	60.13	0.00	O
ATOM	93	N	ILE	A	24	21.716	4.675	-5.094	61.59	0.00	N
ATOM	94	CA	ILE	A	24	21.183	4.223	-3.815	61.59	0.00	C
ATOM	95	C	ILE	A	24	21.969	3.033	-3.281	61.59	0.00	C
ATOM	96	O	ILE	A	24	21.986	1.963	-3.891	61.59	0.00	O
ATOM	97	N	TYR	A	25	22.618	3.223	-2.138	56.15	0.00	N
ATOM	98	CA	TYR	A	25	23.339	2.144	-1.477	56.15	0.00	C
ATOM	99	C	TYR	A	25	22.549	1.596	-0.294	56.15	0.00	C
ATOM	100	O	TYR	A	25	21.750	2.308	0.314	56.15	0.00	O
ATOM	101	N	VAL	A	26	22.778	0.327	0.027	70.44	0.00	N
ATOM	102	CA	VAL	A	26	22.094	-0.316	1.143	70.44	0.00	C
ATOM	103	C	VAL	A	26	22.264	0.484	2.427	70.44	0.00	C
ATOM	104	O	VAL	A	26	21.338	0.588	3.232	70.44	0.00	O
ATOM	105	N	THR	A	27	23.451	1.050	2.614	57.80	0.00	N
ATOM	106	CA	THR	A	27	23.751	1.825	3.812	57.80	0.00	C
ATOM	107	C	THR	A	27	22.677	2.874	4.072	57.80	0.00	C
ATOM	108	O	THR	A	27	22.298	3.118	5.217	57.80	0.00	O
ATOM	109	N	ASP	A	28	22.192	3.494	3.002	52.14	0.00	N
ATOM	110	CA	ASP	A	28	21.183	4.540	3.114	52.14	0.00	C
ATOM	111	C	ASP	A	28	19.777	3.964	3.009	52.14	0.00	C
ATOM	112	O	ASP	A	28	18.846	4.453	3.649	52.14	0.00	O
ATOM	113	N	LEU	A	29	19.629	2.923	2.197	66.81	0.00	N
ATOM	114	CA	LEU	A	29	18.328	2.303	1.975	66.81	0.00	C
ATOM	115	C	LEU	A	29	17.700	1.853	3.287	66.81	0.00	C
ATOM	116	O	LEU	A	29	16.496	1.997	3.492	66.81	0.00	O
ATOM	117	N	VAL	A	30	18.525	1.308	4.175	55.91	0.00	N
ATOM	118	CA	VAL	A	30	18.036	0.731	5.422	55.91	0.00	C
ATOM	119	C	VAL	A	30	17.506	1.810	6.358	55.91	0.00	C
ATOM	120	O	VAL	A	30	16.894	1.509	7.383	55.91	0.00	O
ATOM	121	N	ARG	A	31	17.743	3.066	5.998	86.64	0.00	N
ATOM	122	CA	ARG	A	31	17.255	4.193	6.784	86.64	0.00	C
ATOM	123	C	ARG	A	31	15.736	4.284	6.733	86.64	0.00	C
ATOM	124	O	ARG	A	31	15.114	4.931	7.575	86.64	0.00	O
ATOM	125	N	CYS	A	32	15.142	3.630	5.740	50.59	0.00	N
ATOM	126	CA	CYS	A	32	13.691	3.609	5.595	50.59	0.00	C
ATOM	127	C	CYS	A	32	13.007	3.401	6.941	50.59	0.00	C
ATOM	128	O	CYS	A	32	13.276	2.425	7.640	50.59	0.00	O
ATOM	129	N	PRO	A	33	12.120	4.325	7.296	50.11	0.00	N
ATOM	130	CA	PRO	A	33	11.462	4.295	8.596	50.11	0.00	C
ATOM	131	C	PRO	A	33	10.497	3.121	8.697	50.11	0.00	C
ATOM	132	O	PRO	A	33	10.210	2.632	9.791	50.11	0.00	O
ATOM	133	N	ARG	A	34	9.998	2.671	7.551	34.08	0.00	N
ATOM	134	CA	ARG	A	34	9.094	1.528	7.505	34.08	0.00	C
ATOM	135	C	ARG	A	34	9.788	0.257	7.977	34.08	0.00	C
ATOM	136	O	ARG	A	34	9.242	-0.497	8.783	34.08	0.00	O
ATOM	137	N	ARG	A	35	10.993	0.024	7.469	25.98	0.00	N
ATOM	138	CA	ARG	A	35	11.803	-1.107	7.906	25.98	0.00	C
ATOM	139	C	ARG	A	35	12.069	-1.047	9.405	25.98	0.00	C
ATOM	140	O	ARG	A	35	11.930	-2.047	10.110	25.98	0.00	O
ATOM	141	N	VAL	A	36	12.452	0.131	9.887	52.80	0.00	N
ATOM	142	CA	VAL	A	36	12.781	0.312	11.296	52.80	0.00	C
ATOM	143	C	VAL	A	36	11.563	0.083	12.180	52.80	0.00	C
ATOM	144	O	VAL	A	36	11.652	-0.569	13.221	52.80	0.00	O

ATOM	145	N	ARG	A	37	10.423	0.624	11.760	54.12	0.00	N
ATOM	146	CA	ARG	A	37	9.204	0.551	12.554	54.12	0.00	C
ATOM	147	C	ARG	A	37	8.748	-0.891	12.735	54.12	0.00	C
ATOM	148	O	ARG	A	37	8.289	-1.277	13.810	54.12	0.00	O
ATOM	149	N	TYR	A	38	8.881	-1.685	11.678	45.86	0.00	N
ATOM	150	CA	TYR	A	38	8.579	-3.110	11.747	45.86	0.00	C
ATOM	151	C	TYR	A	38	9.566	-3.839	12.648	45.86	0.00	C
ATOM	152	O	TYR	A	38	9.171	-4.602	13.530	45.86	0.00	O
ATOM	153	N	GLU	A	39	10.854	-3.602	12.421	57.04	0.00	N
ATOM	154	CA	GLU	A	39	11.902	-4.271	13.182	57.04	0.00	C
ATOM	155	C	GLU	A	39	11.712	-4.068	14.679	57.04	0.00	C
ATOM	156	O	GLU	A	39	11.937	-4.983	15.473	57.04	0.00	O
ATOM	157	N	SER	A	40	11.296	-2.865	15.060	46.13	0.00	N
ATOM	158	CA	SER	A	40	11.228	-2.488	16.467	46.13	0.00	C
ATOM	159	C	SER	A	40	10.197	-3.326	17.213	46.13	0.00	C
ATOM	160	O	SER	A	40	10.234	-3.427	18.439	46.13	0.00	O
ATOM	161	N	GLU	A	41	9.277	-3.927	16.465	51.09	0.00	N
ATOM	162	CA	GLU	A	41	8.230	-4.752	17.054	51.09	0.00	C
ATOM	163	C	GLU	A	41	8.410	-6.218	16.684	51.09	0.00	C
ATOM	164	O	GLU	A	41	7.971	-7.110	17.410	51.09	0.00	O
ATOM	165	N	TYR	A	42	9.058	-6.462	15.550	43.68	0.00	N
ATOM	166	CA	TYR	A	42	9.215	-7.817	15.034	43.68	0.00	C
ATOM	167	C	TYR	A	42	10.679	-8.134	14.758	43.68	0.00	C
ATOM	168	O	TYR	A	42	11.112	-8.163	13.605	43.68	0.00	O
ATOM	169	N	LYS	A	43	11.438	-8.372	15.822	60.71	0.00	N
ATOM	170	CA	LYS	A	43	12.859	-8.678	15.696	60.71	0.00	C
ATOM	171	C	LYS	A	43	13.081	-10.157	15.407	60.71	0.00	C
ATOM	172	O	LYS	A	43	14.021	-10.527	14.704	60.71	0.00	O
ATOM	173	N	GLU	A	44	12.209	-10.999	15.952	55.81	0.00	N
ATOM	174	CA	GLU	A	44	12.332	-12.442	15.786	55.81	0.00	C
ATOM	175	C	GLU	A	44	10.962	-13.104	15.696	55.81	0.00	C
ATOM	176	O	GLU	A	44	10.105	-12.896	16.555	55.81	0.00	O
ATOM	177	N	LEU	A	45	10.763	-13.902	14.653	48.24	0.00	N
ATOM	178	CA	LEU	A	45	9.474	-14.537	14.409	48.24	0.00	C
ATOM	179	C	LEU	A	45	9.554	-16.044	14.614	48.24	0.00	C
ATOM	180	O	LEU	A	45	10.588	-16.661	14.356	48.24	0.00	O
ATOM	181	N	ALA	A	46	8.458	-16.632	15.081	62.46	0.00	N
ATOM	182	CA	ALA	A	46	8.364	-18.081	15.215	62.46	0.00	C
ATOM	183	C	ALA	A	46	7.943	-18.730	13.902	62.46	0.00	C
ATOM	184	O	ALA	A	46	7.888	-19.955	13.794	62.46	0.00	O
ATOM	185	N	ILE	A	47	7.647	-17.902	12.907	56.61	0.00	N
ATOM	186	CA	ILE	A	47	7.259	-18.394	11.590	56.61	0.00	C
ATOM	187	C	ILE	A	47	8.364	-18.161	10.569	56.61	0.00	C
ATOM	188	O	ILE	A	47	8.104	-18.073	9.369	56.61	0.00	O
ATOM	189	N	SER	A	48	9.598	-18.061	11.051	57.74	0.00	N
ATOM	190	CA	SER	A	48	10.722	-17.675	10.206	57.74	0.00	C
ATOM	191	C	SER	A	48	11.025	-18.747	9.167	57.74	0.00	C
ATOM	192	O	SER	A	48	11.725	-18.494	8.187	57.74	0.00	O
ATOM	193	N	GLN	A	49	10.493	-19.944	9.388	65.98	0.00	N
ATOM	194	CA	GLN	A	49	10.654	-21.040	8.439	65.98	0.00	C
ATOM	195	C	GLN	A	49	10.079	-20.677	7.076	65.98	0.00	C
ATOM	196	O	GLN	A	49	10.571	-21.133	6.043	65.98	0.00	O
ATOM	197	N	VAL	A	50	9.036	-19.854	7.078	68.48	0.00	N
ATOM	198	CA	VAL	A	50	8.419	-19.395	5.840	68.48	0.00	C
ATOM	199	C	VAL	A	50	8.594	-17.892	5.660	68.48	0.00	C
ATOM	200	O	VAL	A	50	9.024	-17.429	4.604	68.48	0.00	O
ATOM	201	N	TYR	A	51	8.259	-17.135	6.700	34.17	0.00	N
ATOM	202	CA	TYR	A	51	8.376	-15.682	6.658	34.17	0.00	C
ATOM	203	C	TYR	A	51	9.430	-15.186	7.638	34.17	0.00	C
ATOM	204	O	TYR	A	51	9.103	-14.695	8.720	34.17	0.00	O
ATOM	205	N	ALA	A	52	10.695	-15.315	7.256	46.56	0.00	N
ATOM	206	CA	ALA	A	52	11.798	-14.824	8.074	46.56	0.00	C
ATOM	207	C	ALA	A	52	11.755	-13.306	8.202	46.56	0.00	C
ATOM	208	O	ALA	A	52	11.495	-12.598	7.228	46.56	0.00	O
ATOM	209	N	PRO	A	53	12.012	-12.812	9.409	49.85	0.00	N
ATOM	210	CA	PRO	A	53	11.958	-11.380	9.677	49.85	0.00	C
ATOM	211	C	PRO	A	53	13.017	-10.629	8.880	49.85	0.00	C
ATOM	212	O	PRO	A	53	12.828	-9.469	8.517	49.85	0.00	O
ATOM	213	N	SER	A	54	14.133	-11.300	8.610	47.01	0.00	N
ATOM	214	CA	SER	A	54	15.193	-10.724	7.792	47.01	0.00	C
ATOM	215	C	SER	A	54	14.739	-10.544	6.350	47.01	0.00	C
ATOM	216	O	SER	A	54	14.934	-9.483	5.755	47.01	0.00	O
ATOM	217	N	ALA	A	55	14.132	-11.585	5.790	43.60	0.00	N
ATOM	218	CA	ALA	A	55	13.612	-11.529	4.430	43.60	0.00	C
ATOM	219	C	ALA	A	55	12.495	-10.500	4.310	43.60	0.00	C
ATOM	220	O	ALA	A	55	12.371	-9.821	3.291	43.60	0.00	O
ATOM	221	N	ILE	A	56	11.683	-10.390	5.356	26.91	0.00	N
ATOM	222	CA	ILE	A	56	10.598	-9.417	5.385	26.91	0.00	C
ATOM	223	C	ILE	A	56	11.135	-7.993	5.345	26.91	0.00	C
ATOM	224	O	ILE	A	56	10.679	-7.170	4.550	26.91	0.00	O
ATOM	225	N	LEU	A	57	12.103	-7.707	6.207	22.36	0.00	N
ATOM	226	CA	LEU	A	57	12.694	-6.376	6.282	22.36	0.00	C
ATOM	227	C	LEU	A	57	13.305	-5.967	4.947	22.36	0.00	C
ATOM	228	O	LEU	A	57	13.194	-4.815	4.530	22.36	0.00	O
ATOM	229	N	GLY	A	58	13.949	-6.920	4.282	47.90	0.00	N
ATOM	230	CA	GLY	A	58	14.524	-6.678	2.964	47.90	0.00	C
ATOM	231	C	GLY	A	58	13.441	-6.353	1.942	47.90	0.00	C
ATOM	232	O	GLY	A	58	13.588	-5.430	1.141	47.90	0.00	O
ATOM	233	N	ASP	A	59	12.354	-7.115	1.977	47.45	0.00	N
ATOM	234	CA	ASP	A	59	11.253	-6.923	1.041	47.45	0.00	C
ATOM	235	C	ASP	A	59	10.505	-5.628	1.331	47.45	0.00	C
ATOM	236	O	ASP	A	59	9.920	-5.023	0.432	47.45	0.00	O

ATOM	237	N	ILE	A	60	10.529	-5.206	2.590	21.25	0.00	N
ATOM	238	CA	ILE	A	60	9.979	-3.910	2.976	21.25	0.00	C
ATOM	239	C	ILE	A	60	10.769	-2.769	2.350	21.25	0.00	C
ATOM	240	O	ILE	A	60	10.194	-1.779	1.895	21.25	0.00	O
ATOM	241	N	LEU	A	61	12.090	-2.911	2.329	25.12	0.00	N
ATOM	242	CA	LEU	A	61	12.953	-1.958	1.642	25.12	0.00	C
ATOM	243	C	LEU	A	61	12.652	-1.918	0.150	25.12	0.00	C
ATOM	244	O	LEU	A	61	12.658	-0.852	-0.467	25.12	0.00	O
ATOM	245	N	HIS	A	62	12.390	-3.087	-0.427	66.36	0.00	N
ATOM	246	CA	HIS	A	62	12.070	-3.185	-1.846	66.36	0.00	C
ATOM	247	C	HIS	A	62	10.793	-2.426	-2.177	66.36	0.00	C
ATOM	248	O	HIS	A	62	10.763	-1.615	-3.103	66.36	0.00	O
ATOM	249	N	LEU	A	63	9.737	-2.694	-1.416	23.84	0.00	N
ATOM	250	CA	LEU	A	63	8.443	-2.066	-1.651	23.84	0.00	C
ATOM	251	C	LEU	A	63	8.500	-0.567	-1.380	23.84	0.00	C
ATOM	252	O	LEU	A	63	7.981	0.234	-2.157	23.84	0.00	O
ATOM	253	N	GLY	A	64	9.135	-0.196	-0.274	27.85	0.00	N
ATOM	254	CA	GLY	A	64	9.240	1.206	0.114	27.85	0.00	C
ATOM	255	C	GLY	A	64	10.021	2.006	-0.919	27.85	0.00	C
ATOM	256	O	GLY	A	64	9.630	3.116	-1.284	27.85	0.00	O
ATOM	257	N	LEU	A	65	11.125	1.438	-1.390	31.75	0.00	N
ATOM	258	CA	LEU	A	65	11.929	2.069	-2.430	31.75	0.00	C
ATOM	259	C	LEU	A	65	11.109	2.305	-3.692	31.75	0.00	C
ATOM	260	O	LEU	A	65	11.115	3.400	-4.253	31.75	0.00	O
ATOM	261	N	GLU	A	66	10.404	1.268	-4.135	78.61	0.00	N
ATOM	262	CA	GLU	A	66	9.573	1.362	-5.329	78.61	0.00	C
ATOM	263	C	GLU	A	66	8.424	2.341	-5.125	78.61	0.00	C
ATOM	264	O	GLU	A	66	8.013	3.034	-6.055	78.61	0.00	O
ATOM	265	N	SER	A	67	7.907	2.391	-3.902	40.41	0.00	N
ATOM	266	CA	SER	A	67	6.797	3.279	-3.575	40.41	0.00	C
ATOM	267	C	SER	A	67	7.189	4.739	-3.754	40.41	0.00	C
ATOM	268	O	SER	A	67	6.462	5.516	-4.374	40.41	0.00	O
ATOM	269	N	VAL	A	68	8.343	5.109	-3.209	37.35	0.00	N
ATOM	270	CA	VAL	A	68	8.839	6.476	-3.318	37.35	0.00	C
ATOM	271	C	VAL	A	68	9.177	6.825	-4.762	37.35	0.00	C
ATOM	272	O	VAL	A	68	8.937	7.945	-5.211	37.35	0.00	O
ATOM	273	N	LEU	A	69	9.735	5.860	-5.484	35.55	0.00	N
ATOM	274	CA	LEU	A	69	9.988	6.018	-6.912	35.55	0.00	C
ATOM	275	C	LEU	A	69	8.705	6.345	-7.665	35.55	0.00	C
ATOM	276	O	LEU	A	69	8.669	7.268	-8.480	35.55	0.00	O
ATOM	277	N	LYS	A	70	7.651	5.584	-7.388	19.55	0.00	N
ATOM	278	CA	LYS	A	70	6.366	5.786	-8.045	19.55	0.00	C
ATOM	279	C	LYS	A	70	5.783	7.152	-7.707	19.55	0.00	C
ATOM	280	O	LYS	A	70	5.176	7.805	-8.554	19.55	0.00	O
ATOM	281	N	GLY	A	71	5.971	7.578	-6.462	30.56	0.00	N
ATOM	282	CA	GLY	A	71	5.517	8.893	-6.026	30.56	0.00	C
ATOM	283	C	GLY	A	71	6.223	10.002	-6.796	30.56	0.00	C
ATOM	284	O	GLY	A	71	5.604	10.995	-7.182	30.56	0.00	O
ATOM	285	N	ASN	A	72	7.521	9.829	-7.017	33.38	0.00	N
ATOM	286	CA	ASN	A	72	8.312	10.810	-7.751	33.38	0.00	C
ATOM	287	C	ASN	A	72	8.022	10.746	-9.244	33.38	0.00	C
ATOM	288	O	ASN	A	72	8.169	11.737	-9.958	33.38	0.00	O
ATOM	289	N	PHE	A	73	7.610	9.572	-9.712	52.13	0.00	N
ATOM	290	CA	PHE	A	73	7.342	9.364	-11.130	52.13	0.00	C
ATOM	291	C	PHE	A	73	5.870	9.588	-11.450	52.13	0.00	C
ATOM	292	O	PHE	A	73	5.481	9.646	-12.617	52.13	0.00	O
ATOM	293	N	ASN	A	74	5.054	9.712	-10.408	42.19	0.00	N
ATOM	294	CA	ASN	A	74	3.611	9.835	-10.575	42.19	0.00	C
ATOM	295	C	ASN	A	74	3.023	8.587	-11.219	42.19	0.00	C
ATOM	296	O	ASN	A	74	2.076	8.669	-12.003	42.19	0.00	O
ATOM	297	N	ALA	A	75	3.588	7.432	-10.887	49.67	0.00	N
ATOM	298	CA	ALA	A	75	3.165	6.171	-11.484	49.67	0.00	C
ATOM	299	C	ALA	A	75	1.959	5.594	-10.754	49.67	0.00	C
ATOM	300	O	ALA	A	75	1.664	5.978	-9.623	49.67	0.00	O
ATOM	301	N	GLU	A	76	1.265	4.669	-11.408	45.22	0.00	N
ATOM	302	CA	GLU	A	76	0.058	4.076	-10.846	45.22	0.00	C
ATOM	303	C	GLU	A	76	-0.008	2.581	-11.133	45.22	0.00	C
ATOM	304	O	GLU	A	76	0.506	2.112	-12.149	45.22	0.00	O
ATOM	305	N	THR	A	77	-0.644	1.839	-10.233	63.11	0.00	N
ATOM	306	CA	THR	A	77	-0.790	0.398	-10.396	63.11	0.00	C
ATOM	307	C	THR	A	77	-2.251	-0.022	-10.300	63.11	0.00	C
ATOM	308	O	THR	A	77	-2.905	0.200	-9.280	63.11	0.00	O
ATOM	309	N	GLU	A	78	-2.759	-0.629	-11.366	62.28	0.00	N
ATOM	310	CA	GLU	A	78	-4.142	-1.090	-11.400	62.28	0.00	C
ATOM	311	C	GLU	A	78	-4.219	-2.609	-11.297	62.28	0.00	C
ATOM	312	O	GLU	A	78	-3.682	-3.326	-12.141	62.28	0.00	O
ATOM	313	N	VAL	A	79	-4.891	-3.092	-10.258	42.88	0.00	N
ATOM	314	CA	VAL	A	79	-5.038	-4.526	-10.041	42.88	0.00	C
ATOM	315	C	VAL	A	79	-6.505	-4.921	-9.941	42.88	0.00	C
ATOM	316	O	VAL	A	79	-7.300	-4.237	-9.295	42.88	0.00	O
ATOM	317	N	GLU	A	80	-6.860	-6.028	-10.584	42.38	0.00	N
ATOM	318	CA	GLU	A	80	-8.245	-6.484	-10.620	42.38	0.00	C
ATOM	319	C	GLU	A	80	-8.440	-7.723	-9.756	42.38	0.00	C
ATOM	320	O	GLU	A	80	-7.653	-8.667	-9.824	42.38	0.00	O
ATOM	321	N	THR	A	81	-9.491	-7.713	-8.944	41.50	0.00	N
ATOM	322	CA	THR	A	81	-9.765	-8.816	-8.031	41.50	0.00	C
ATOM	323	C	THR	A	81	-11.223	-8.818	-7.590	41.50	0.00	C
ATOM	324	O	THR	A	81	-12.017	-7.989	-8.036	41.50	0.00	O
ATOM	325	N	LEU	A	82	-11.569	-9.753	-6.711	42.94	0.00	N
ATOM	326	CA	LEU	A	82	-12.909	-9.808	-6.141	42.94	0.00	C
ATOM	327	C	LEU	A	82	-13.001	-8.976	-4.869	42.94	0.00	C
ATOM	328	O	LEU	A	82	-12.283	-9.223	-3.900	42.94	0.00	O



ATOM	329	N	ARG	A	83	-13.889	-7.987	-4.878	22.34	0.00	N
ATOM	330	CA	ARG	A	83	-14.107	-7.143	-3.709	22.34	0.00	C
ATOM	331	C	ARG	A	83	-15.192	-7.718	-2.808	22.34	0.00	C
ATOM	332	O	ARG	A	83	-16.372	-7.715	-3.161	22.34	0.00	O
ATOM	333	N	GLU	A	84	-14.787	-8.211	-1.643	13.69	0.00	N
ATOM	334	CA	GLU	A	84	-15.731	-8.731	-0.661	13.69	0.00	C
ATOM	335	C	GLU	A	84	-15.988	-7.718	0.446	13.69	0.00	C
ATOM	336	O	GLU	A	84	-15.325	-7.737	1.484	13.69	0.00	O
ATOM	337	N	ILE	A	85	-16.954	-6.835	0.221	55.14	0.00	N
ATOM	338	CA	ILE	A	85	-17.197	-5.717	1.126	55.14	0.00	C
ATOM	339	C	ILE	A	85	-18.562	-5.834	1.792	55.14	0.00	C
ATOM	340	O	ILE	A	85	-19.557	-6.151	1.139	55.14	0.00	O
ATOM	341	N	ASN	A	86	-18.603	-5.578	3.095	49.91	0.00	N
ATOM	342	CA	ASN	A	86	-19.861	-5.561	3.833	49.91	0.00	C
ATOM	343	C	ASN	A	86	-20.424	-4.149	3.930	49.91	0.00	C
ATOM	344	O	ASN	A	86	-19.934	-3.328	4.706	49.91	0.00	O
ATOM	345	N	VAL	A	87	-21.454	-3.873	3.139	49.44	0.00	N
ATOM	346	CA	VAL	A	87	-22.001	-2.524	3.036	49.44	0.00	C
ATOM	347	C	VAL	A	87	-23.394	-2.447	3.649	49.44	0.00	C
ATOM	348	O	VAL	A	87	-24.344	-3.032	3.131	49.44	0.00	O
ATOM	349	N	GLY	A	88	-23.508	-1.722	4.757	48.77	0.00	N
ATOM	350	CA	GLY	A	88	-24.801	-1.476	5.382	48.77	0.00	C
ATOM	351	C	GLY	A	88	-25.332	-2.730	6.064	48.77	0.00	C
ATOM	352	O	GLY	A	88	-26.524	-2.838	6.348	48.77	0.00	O
ATOM	353	N	GLY	A	89	-24.437	-3.679	6.325	49.03	0.00	N
ATOM	354	CA	GLY	A	89	-24.819	-4.942	6.945	49.03	0.00	C
ATOM	355	C	GLY	A	89	-25.056	-6.021	5.896	49.03	0.00	C
ATOM	356	O	GLY	A	89	-25.298	-7.181	6.230	49.03	0.00	O
ATOM	357	N	LYS	A	90	-24.985	-5.632	4.628	49.16	0.00	N
ATOM	358	CA	LYS	A	90	-25.193	-6.565	3.528	49.16	0.00	C
ATOM	359	C	LYS	A	90	-23.876	-6.918	2.848	49.16	0.00	C
ATOM	360	O	LYS	A	90	-23.041	-6.047	2.602	49.16	0.00	O
ATOM	361	N	VAL	A	91	-23.697	-8.200	2.546	52.06	0.00	N
ATOM	362	CA	VAL	A	91	-22.476	-8.671	1.903	52.06	0.00	C
ATOM	363	C	VAL	A	91	-22.526	-8.449	0.397	52.06	0.00	C
ATOM	364	O	VAL	A	91	-23.435	-8.929	-0.281	52.06	0.00	O
ATOM	365	N	TYR	A	92	-21.543	-7.722	-0.122	47.93	0.00	N
ATOM	366	CA	TYR	A	92	-21.409	-7.529	-1.562	47.93	0.00	C
ATOM	367	C	TYR	A	92	-20.090	-8.094	-2.072	47.93	0.00	C
ATOM	368	O	TYR	A	92	-19.025	-7.527	-1.828	47.93	0.00	O
ATOM	369	N	LYS	A	93	-20.167	-9.215	-2.782	70.62	0.00	N
ATOM	370	CA	LYS	A	93	-18.995	-9.797	-3.425	70.62	0.00	C
ATOM	371	C	LYS	A	93	-18.956	-9.459	-4.909	70.62	0.00	C
ATOM	372	O	LYS	A	93	-19.509	-10.184	-5.736	70.62	0.00	O
ATOM	373	N	ILE	A	94	-18.298	-8.354	-5.242	47.02	0.00	N
ATOM	374	CA	ILE	A	94	-18.385	-7.785	-6.582	47.02	0.00	C
ATOM	375	C	ILE	A	94	-17.017	-7.741	-7.251	47.02	0.00	C
ATOM	376	O	ILE	A	94	-16.045	-7.260	-6.669	47.02	0.00	O
ATOM	377	N	LYS	A	95	-16.949	-8.247	-8.478	69.21	0.00	N
ATOM	378	CA	LYS	A	95	-15.722	-8.185	-9.265	69.21	0.00	C
ATOM	379	C	LYS	A	95	-15.409	-6.755	-9.684	69.21	0.00	C
ATOM	380	O	LYS	A	95	-16.261	-6.058	-10.237	69.21	0.00	O
ATOM	381	N	GLY	A	96	-14.182	-6.321	-9.418	48.31	0.00	N
ATOM	382	CA	GLY	A	96	-13.750	-4.975	-9.774	48.31	0.00	C
ATOM	383	C	GLY	A	96	-12.235	-4.843	-9.696	48.31	0.00	C
ATOM	384	O	GLY	A	96	-11.514	-5.842	-9.691	48.31	0.00	O
ATOM	385	N	ARG	A	97	-11.756	-3.606	-9.635	42.47	0.00	N
ATOM	386	CA	ARG	A	97	-10.323	-3.336	-9.657	42.47	0.00	C
ATOM	387	C	ARG	A	97	-9.993	-2.046	-8.918	42.47	0.00	C
ATOM	388	O	ARG	A	97	-10.856	-1.188	-8.730	42.47	0.00	O
ATOM	389	N	ALA	A	98	-8.740	-1.914	-8.498	45.19	0.00	N
ATOM	390	CA	ALA	A	98	-8.279	-0.702	-7.832	45.19	0.00	C
ATOM	391	C	ALA	A	98	-7.037	-0.138	-8.511	45.19	0.00	C
ATOM	392	O	ALA	A	98	-6.023	-0.824	-8.641	45.19	0.00	O
ATOM	393	N	ASP	A	99	-7.123	1.116	-8.943	66.23	0.00	N
ATOM	394	CA	ASP	A	99	-5.987	1.795	-9.554	66.23	0.00	C
ATOM	395	C	ASP	A	99	-5.373	2.809	-8.597	66.23	0.00	C
ATOM	396	O	ASP	A	99	-5.882	3.920	-8.444	66.23	0.00	O
ATOM	397	N	ALA	A	100	-4.276	2.421	-7.956	53.59	0.00	N
ATOM	398	CA	ALA	A	100	-3.644	3.258	-6.944	53.59	0.00	C
ATOM	399	C	ALA	A	100	-2.569	4.147	-7.557	53.59	0.00	C
ATOM	400	O	ALA	A	100	-1.694	3.671	-8.280	53.59	0.00	O
ATOM	401	N	ILE	A	101	-2.640	5.442	-7.262	57.33	0.00	N
ATOM	402	CA	ILE	A	101	-1.630	6.387	-7.719	57.33	0.00	C
ATOM	403	C	ILE	A	101	-1.213	7.332	-6.598	57.33	0.00	C
ATOM	404	O	ILE	A	101	-2.058	7.888	-5.897	57.33	0.00	O
ATOM	405	N	ILE	A	102	0.094	7.508	-6.436	55.03	0.00	N
ATOM	406	CA	ILE	A	102	0.627	8.335	-5.360	55.03	0.00	C
ATOM	407	C	ILE	A	102	0.665	9.804	-5.763	55.03	0.00	C
ATOM	408	O	ILE	A	102	1.239	10.161	-6.792	55.03	0.00	O
ATOM	409	N	ARG	A	103	0.052	10.653	-4.945	27.39	0.00	N
ATOM	410	CA	ARG	A	103	-0.066	12.072	-5.261	27.39	0.00	C
ATOM	411	C	ARG	A	103	0.943	12.897	-4.474	27.39	0.00	C
ATOM	412	O	ARG	A	103	1.551	13.826	-5.008	27.39	0.00	O
ATOM	413	N	ASN	A	104	1.118	12.554	-3.202	50.54	0.00	N
ATOM	414	CA	ASN	A	104	2.040	13.277	-2.334	50.54	0.00	C
ATOM	415	C	ASN	A	104	2.675	12.345	-1.310	50.54	0.00	C
ATOM	416	O	ASN	A	104	2.086	12.056	-0.269	50.54	0.00	O
ATOM	417	N	ASP	A	105	3.883	11.878	-1.610	48.89	0.00	N
ATOM	418	CA	ASP	A	105	4.569	10.920	-0.753	48.89	0.00	C
ATOM	419	C	ASP	A	105	5.257	11.619	0.414	48.89	0.00	C
ATOM	420	O	ASP	A	105	5.922	10.978	1.229	48.89	0.00	O

ATOM	421	N	ASN	A	106	5.090	12.934	0.490	47.26	0.00	N
ATOM	422	CA	ASN	A	106	5.550	13.699	1.643	47.26	0.00	C
ATOM	423	C	ASN	A	106	4.401	13.994	2.600	47.26	0.00	C
ATOM	424	O	ASN	A	106	4.609	14.159	3.803	47.26	0.00	O
ATOM	425	N	GLY	A	107	3.190	14.061	2.060	52.85	0.00	N
ATOM	426	CA	GLY	A	107	1.990	14.185	2.880	52.85	0.00	C
ATOM	427	C	GLY	A	107	1.264	12.851	3.000	52.85	0.00	C
ATOM	428	O	GLY	A	107	0.224	12.756	3.651	52.85	0.00	O
ATOM	429	N	LYS	A	108	1.819	11.822	2.369	29.53	0.00	N
ATOM	430	CA	LYS	A	108	1.293	10.469	2.499	29.53	0.00	C
ATOM	431	C	LYS	A	108	-0.107	10.362	1.907	29.53	0.00	C
ATOM	432	O	LYS	A	108	-0.957	9.638	2.426	29.53	0.00	O
ATOM	433	N	SER	A	109	-0.341	11.090	0.820	43.88	0.00	N
ATOM	434	CA	SER	A	109	-1.633	11.066	0.146	43.88	0.00	C
ATOM	435	C	SER	A	109	-1.586	10.197	-1.105	43.88	0.00	C
ATOM	436	O	SER	A	109	-0.891	10.518	-2.068	43.88	0.00	O
ATOM	437	N	ILE	A	110	-2.331	9.097	-1.083	43.16	0.00	N
ATOM	438	CA	ILE	A	110	-2.419	8.209	-2.235	43.16	0.00	C
ATOM	439	C	ILE	A	110	-3.864	8.036	-2.689	43.16	0.00	C
ATOM	440	O	ILE	A	110	-4.726	7.638	-1.906	43.16	0.00	O
ATOM	441	N	VAL	A	111	-4.121	8.340	-3.957	55.63	0.00	N
ATOM	442	CA	VAL	A	111	-5.468	8.254	-4.507	55.63	0.00	C
ATOM	443	C	VAL	A	111	-5.687	6.928	-5.224	55.63	0.00	C
ATOM	444	O	VAL	A	111	-4.970	6.596	-6.167	55.63	0.00	O
ATOM	445	N	ILE	A	112	-6.682	6.173	-4.772	58.72	0.00	N
ATOM	446	CA	ILE	A	112	-6.992	4.878	-5.363	58.72	0.00	C
ATOM	447	C	ILE	A	112	-8.355	4.895	-6.043	58.72	0.00	C
ATOM	448	O	ILE	A	112	-9.388	5.001	-5.383	58.72	0.00	O
ATOM	449	N	GLU	A	113	-8.352	4.790	-7.368	83.18	0.00	N
ATOM	450	CA	GLU	A	113	-9.587	4.802	-8.141	83.18	0.00	C
ATOM	451	C	GLU	A	113	-10.228	3.421	-8.176	83.18	0.00	C
ATOM	452	O	GLU	A	113	-9.707	2.499	-8.804	83.18	0.00	O
ATOM	453	N	ILE	A	114	-11.362	3.283	-7.497	52.42	0.00	N
ATOM	454	CA	ILE	A	114	-12.054	2.003	-7.411	52.42	0.00	C
ATOM	455	C	ILE	A	114	-13.033	1.828	-8.565	52.42	0.00	C
ATOM	456	O	ILE	A	114	-13.987	2.593	-8.704	52.42	0.00	O
ATOM	457	N	LYS	A	115	-12.791	0.816	-9.391	70.74	0.00	N
ATOM	458	CA	LYS	A	115	-13.617	0.572	-10.568	70.74	0.00	C
ATOM	459	C	LYS	A	115	-14.397	-0.729	-10.433	70.74	0.00	C
ATOM	460	O	LYS	A	115	-13.958	-1.660	-9.757	70.74	0.00	O
ATOM	461	N	THR	A	116	-15.555	-0.789	-11.081	42.92	0.00	N
ATOM	462	CA	THR	A	116	-16.378	-1.993	-11.069	42.92	0.00	C
ATOM	463	C	THR	A	116	-16.338	-2.701	-12.418	42.92	0.00	C
ATOM	464	O	THR	A	116	-16.472	-2.069	-13.465	42.92	0.00	O
ATOM	465	N	SER	A	117	-16.154	-4.016	-12.384	45.57	0.00	N
ATOM	466	CA	SER	A	117	-16.085	-4.811	-13.604	45.57	0.00	C
ATOM	467	C	SER	A	117	-17.324	-5.682	-13.765	45.57	0.00	C
ATOM	468	O	SER	A	117	-17.806	-5.891	-14.878	45.57	0.00	O
ATOM	469	N	ARG	A	118	-17.835	-6.188	-12.648	29.06	0.00	N
ATOM	470	CA	ARG	A	118	-19.020	-7.036	-12.663	29.06	0.00	C
ATOM	471	C	ARG	A	118	-20.179	-6.353	-13.378	29.06	0.00	C
ATOM	472	O	ARG	A	118	-20.672	-5.318	-12.931	29.06	0.00	O
ATOM	473	N	SER	A	119	-20.610	-6.939	-14.489	43.52	0.00	N
ATOM	474	CA	SER	A	119	-21.662	-6.348	-15.308	43.52	0.00	C
ATOM	475	C	SER	A	119	-22.998	-6.354	-14.578	43.52	0.00	C
ATOM	476	O	SER	A	119	-23.907	-5.598	-14.920	43.52	0.00	O
ATOM	477	N	ASP	A	120	-23.112	-7.213	-13.571	45.20	0.00	N
ATOM	478	CA	ASP	A	120	-24.335	-7.313	-12.784	45.20	0.00	C
ATOM	479	C	ASP	A	120	-24.580	-6.040	-11.984	45.20	0.00	C
ATOM	480	O	ASP	A	120	-25.722	-5.703	-11.669	45.20	0.00	O
ATOM	481	N	LYS	A	121	-23.501	-5.334	-11.659	28.78	0.00	N
ATOM	482	CA	LYS	A	121	-23.579	-4.185	-10.766	28.78	0.00	C
ATOM	483	C	LYS	A	121	-23.308	-2.886	-11.514	28.78	0.00	C
ATOM	484	O	LYS	A	121	-22.497	-2.851	-12.440	28.78	0.00	O
ATOM	485	N	GLY	A	122	-23.990	-1.821	-11.109	50.28	0.00	N
ATOM	486	CA	GLY	A	122	-23.842	-0.523	-11.756	50.28	0.00	C
ATOM	487	C	GLY	A	122	-23.209	0.493	-10.815	50.28	0.00	C
ATOM	488	O	GLY	A	122	-22.815	0.159	-9.698	50.28	0.00	O
ATOM	489	N	LEU	A	123	-23.116	1.737	-11.273	74.40	0.00	N
ATOM	490	CA	LEU	A	123	-22.538	2.808	-10.468	74.40	0.00	C
ATOM	491	C	LEU	A	123	-23.474	4.008	-10.396	74.40	0.00	C
ATOM	492	O	LEU	A	123	-23.379	4.931	-11.204	74.40	0.00	O
ATOM	493	N	PRO	A	124	-24.377	3.990	-9.422	58.93	0.00	N
ATOM	494	CA	PRO	A	124	-25.310	5.092	-9.221	58.93	0.00	C
ATOM	495	C	PRO	A	124	-24.574	6.418	-9.082	58.93	0.00	C
ATOM	496	O	PRO	A	124	-23.563	6.508	-8.386	58.93	0.00	O
ATOM	497	N	LEU	A	125	-25.085	7.447	-9.750	43.87	0.00	N
ATOM	498	CA	LEU	A	125	-24.449	8.758	-9.742	43.87	0.00	C
ATOM	499	C	LEU	A	125	-24.468	9.371	-8.347	43.87	0.00	C
ATOM	500	O	LEU	A	125	-23.632	10.213	-8.018	43.87	0.00	O
ATOM	501	N	ILE	A	126	-25.426	8.943	-7.532	58.05	0.00	N
ATOM	502	CA	ILE	A	126	-25.542	9.434	-6.164	58.05	0.00	C
ATOM	503	C	ILE	A	126	-24.407	8.913	-5.293	58.05	0.00	C
ATOM	504	O	ILE	A	126	-24.210	9.376	-4.168	58.05	0.00	O
ATOM	505	N	HIS	A	127	-23.660	7.947	-5.817	43.35	0.00	N
ATOM	506	CA	HIS	A	127	-22.487	7.424	-5.126	43.35	0.00	C
ATOM	507	C	HIS	A	127	-21.213	7.711	-5.910	43.35	0.00	C
ATOM	508	O	HIS	A	127	-20.139	7.871	-5.329	43.35	0.00	O
ATOM	509	N	HIS	A	128	-21.338	7.775	-7.231	52.41	0.00	N
ATOM	510	CA	HIS	A	128	-20.196	8.042	-8.097	52.41	0.00	C
ATOM	511	C	HIS	A	128	-19.692	9.468	-7.919	52.41	0.00	C
ATOM	512	O	HIS	A	128	-18.485	9.711	-7.890	52.41	0.00	O

ATOM	513	N	LYS	A	129	-20.622	10.409	-7.799	88.91	0.00	N
ATOM	514	CA	LYS	A	129	-20.274	11.805	-7.565	88.91	0.00	C
ATOM	515	C	LYS	A	129	-19.535	11.975	-6.244	88.91	0.00	C
ATOM	516	O	LYS	A	129	-18.642	12.812	-6.124	88.91	0.00	O
ATOM	517	N	MET	A	130	-19.913	11.174	-5.253	78.04	0.00	N
ATOM	518	CA	MET	A	130	-19.219	11.161	-3.972	78.04	0.00	C
ATOM	519	C	MET	A	130	-17.787	10.663	-4.125	78.04	0.00	C
ATOM	520	O	MET	A	130	-16.852	11.258	-3.588	78.04	0.00	O
ATOM	521	N	GLN	A	131	-17.622	9.569	-4.861	58.11	0.00	N
ATOM	522	CA	GLN	A	131	-16.297	9.037	-5.155	58.11	0.00	C
ATOM	523	C	GLN	A	131	-15.412	10.091	-5.809	58.11	0.00	C
ATOM	524	O	GLN	A	131	-14.248	10.252	-5.444	58.11	0.00	O
ATOM	525	N	LEU	A	132	-15.972	10.808	-6.778	72.67	0.00	N
ATOM	526	CA	LEU	A	132	-15.223	11.820	-7.512	72.67	0.00	C
ATOM	527	C	LEU	A	132	-14.768	12.945	-6.591	72.67	0.00	C
ATOM	528	O	LEU	A	132	-13.606	13.350	-6.619	72.67	0.00	O
ATOM	529	N	GLN	A	133	-15.690	13.445	-5.775	99.99	0.00	N
ATOM	530	CA	GLN	A	133	-15.390	14.537	-4.859	99.99	0.00	C
ATOM	531	C	GLN	A	133	-14.294	14.147	-3.875	99.99	0.00	C
ATOM	532	O	GLN	A	133	-13.375	14.923	-3.615	99.99	0.00	O
ATOM	533	N	ILE	A	134	-14.398	12.939	-3.331	69.20	0.00	N
ATOM	534	CA	ILE	A	134	-13.425	12.449	-2.362	69.20	0.00	C
ATOM	535	C	ILE	A	134	-12.025	12.407	-2.961	69.20	0.00	C
ATOM	536	O	ILE	A	134	-11.074	12.928	-2.377	69.20	0.00	O
ATOM	537	N	TYR	A	135	-11.904	11.786	-4.129	53.52	0.00	N
ATOM	538	CA	TYR	A	135	-10.608	11.601	-4.769	53.52	0.00	C
ATOM	539	C	TYR	A	135	-9.911	12.937	-4.996	53.52	0.00	C
ATOM	540	O	TYR	A	135	-8.691	13.043	-4.861	53.52	0.00	O
ATOM	541	N	LEU	A	136	-10.691	13.955	-5.340	90.27	0.00	N
ATOM	542	CA	LEU	A	136	-10.149	15.286	-5.590	90.27	0.00	C
ATOM	543	C	LEU	A	136	-9.721	15.957	-4.292	90.27	0.00	C
ATOM	544	O	LEU	A	136	-8.885	16.861	-4.296	90.27	0.00	O
ATOM	545	N	TRP	A	137	-10.297	15.512	-3.181	77.33	0.00	N
ATOM	546	CA	TRP	A	137	-10.027	16.114	-1.882	77.33	0.00	C
ATOM	547	C	TRP	A	137	-8.845	15.441	-1.197	77.33	0.00	C
ATOM	548	O	TRP	A	137	-8.222	16.017	-0.305	77.33	0.00	O
ATOM	549	N	LEU	A	138	-8.540	14.219	-1.619	32.22	0.00	N
ATOM	550	CA	LEU	A	138	-7.532	13.406	-0.950	32.22	0.00	C
ATOM	551	C	LEU	A	138	-6.191	14.125	-0.895	32.22	0.00	C
ATOM	552	O	LEU	A	138	-5.507	14.106	0.128	32.22	0.00	O
ATOM	553	N	PHE	A	139	-5.821	14.762	-2.001	59.66	0.00	N
ATOM	554	CA	PHE	A	139	-4.550	15.470	-2.088	59.66	0.00	C
ATOM	555	C	PHE	A	139	-4.455	16.565	-1.033	59.66	0.00	C
ATOM	556	O	PHE	A	139	-3.522	16.589	-0.231	59.66	0.00	O
ATOM	557	N	SER	A	140	-5.427	17.471	-1.040	50.13	0.00	N
ATOM	558	CA	SER	A	140	-5.436	18.592	-0.108	50.13	0.00	C
ATOM	559	C	SER	A	140	-5.690	18.120	1.318	50.13	0.00	C
ATOM	560	O	SER	A	140	-5.347	18.807	2.280	50.13	0.00	O
ATOM	561	N	ALA	A	141	-6.294	16.943	1.448	49.30	0.00	N
ATOM	562	CA	ALA	A	141	-6.559	16.359	2.758	49.30	0.00	C
ATOM	563	C	ALA	A	141	-5.352	15.585	3.271	49.30	0.00	C
ATOM	564	O	ALA	A	141	-5.324	15.151	4.422	49.30	0.00	O
ATOM	565	N	GLU	A	142	-4.355	15.415	2.408	35.86	0.00	N
ATOM	566	CA	GLU	A	142	-3.127	14.724	2.785	35.86	0.00	C
ATOM	567	C	GLU	A	142	-3.420	13.318	3.291	35.86	0.00	C
ATOM	568	O	GLU	A	142	-2.924	12.911	4.342	35.86	0.00	O
ATOM	569	N	LYS	A	143	-4.226	12.579	2.537	43.24	0.00	N
ATOM	570	CA	LYS	A	143	-4.584	11.214	2.908	43.24	0.00	C
ATOM	571	C	LYS	A	143	-5.110	10.437	1.709	43.24	0.00	C
ATOM	572	O	LYS	A	143	-5.334	11.004	0.639	43.24	0.00	O
ATOM	573	N	GLY	A	144	-5.303	9.136	1.891	49.83	0.00	N
ATOM	574	CA	GLY	A	144	-5.952	8.308	0.882	49.83	0.00	C
ATOM	575	C	GLY	A	144	-7.239	7.692	1.417	49.83	0.00	C
ATOM	576	O	GLY	A	144	-7.380	7.475	2.620	49.83	0.00	O
ATOM	577	N	ILE	A	145	-8.174	7.414	0.515	38.62	0.00	N
ATOM	578	CA	ILE	A	145	-9.412	6.736	0.882	38.62	0.00	C
ATOM	579	C	ILE	A	145	-9.814	5.716	-0.176	38.62	0.00	C
ATOM	580	O	ILE	A	145	-9.766	5.997	-1.373	38.62	0.00	O
ATOM	581	N	LEU	A	146	-10.212	4.530	0.274	51.00	0.00	N
ATOM	582	CA	LEU	A	146	-10.783	3.525	-0.615	51.00	0.00	C
ATOM	583	C	LEU	A	146	-12.301	3.635	-0.668	51.00	0.00	C
ATOM	584	O	LEU	A	146	-12.991	3.311	0.299	51.00	0.00	O
ATOM	585	N	VAL	A	147	-12.817	4.096	-1.803	42.62	0.00	N
ATOM	586	CA	VAL	A	147	-14.248	4.334	-1.953	42.62	0.00	C
ATOM	587	C	VAL	A	147	-14.893	3.274	-2.836	42.62	0.00	C
ATOM	588	O	VAL	A	147	-14.583	3.168	-4.023	42.62	0.00	O
ATOM	589	N	TYR	A	148	-15.793	2.492	-2.250	47.38	0.00	N
ATOM	590	CA	TYR	A	148	-16.444	1.402	-2.968	47.38	0.00	C
ATOM	591	C	TYR	A	148	-17.920	1.697	-3.196	47.38	0.00	C
ATOM	592	O	TYR	A	148	-18.619	2.156	-2.292	47.38	0.00	O
ATOM	593	N	ILE	A	149	-18.391	1.432	-4.410	37.50	0.00	N
ATOM	594	CA	ILE	A	149	-19.755	1.774	-4.794	37.50	0.00	C
ATOM	595	C	ILE	A	149	-20.559	0.527	-5.137	37.50	0.00	C
ATOM	596	O	ILE	A	149	-20.159	-0.268	-5.988	37.50	0.00	O
ATOM	597	N	THR	A	150	-21.697	0.361	-4.471	44.28	0.00	N
ATOM	598	CA	THR	A	150	-22.661	-0.667	-4.844	44.28	0.00	C
ATOM	599	C	THR	A	150	-23.933	-0.049	-5.411	44.28	0.00	C
ATOM	600	O	THR	A	150	-24.183	1.144	-5.243	44.28	0.00	O
ATOM	601	N	PRO	A	151	-24.734	-0.868	-6.084	38.24	0.00	N
ATOM	602	CA	PRO	A	151	-25.966	-0.396	-6.705	38.24	0.00	C
ATOM	603	C	PRO	A	151	-26.876	0.274	-5.684	38.24	0.00	C
ATOM	604	O	PRO	A	151	-27.700	1.118	-6.033	38.24	0.00	O

ATOM	605	N	ASP	A	152	-26.723	-0.108	-4.421	44.34	0.00	N
ATOM	606	CA	ASP	A	152	-27.594	0.382	-3.361	44.34	0.00	C
ATOM	607	C	ASP	A	152	-26.924	1.499	-2.569	44.34	0.00	C
ATOM	608	O	ASP	A	152	-27.498	2.572	-2.386	44.34	0.00	O
ATOM	609	N	ARG	A	153	-25.707	1.240	-2.104	47.43	0.00	N
ATOM	610	CA	ARG	A	153	-25.077	2.083	-1.095	47.43	0.00	C
ATOM	611	C	ARG	A	153	-23.600	2.295	-1.399	47.43	0.00	C
ATOM	612	O	ARG	A	153	-23.081	1.785	-2.391	47.43	0.00	O
ATOM	613	N	ILE	A	154	-22.927	3.052	-0.538	36.41	0.00	N
ATOM	614	CA	ILE	A	154	-21.524	3.388	-0.748	36.41	0.00	C
ATOM	615	C	ILE	A	154	-20.713	3.188	0.526	36.41	0.00	C
ATOM	616	O	ILE	A	154	-21.144	3.571	1.614	36.41	0.00	O
ATOM	617	N	ALA	A	155	-19.537	2.585	0.385	46.26	0.00	N
ATOM	618	CA	ALA	A	155	-18.674	2.312	1.528	46.26	0.00	C
ATOM	619	C	ALA	A	155	-17.390	3.127	1.454	46.26	0.00	C
ATOM	620	O	ALA	A	155	-16.833	3.331	0.376	46.26	0.00	O
ATOM	621	N	GLU	A	156	-16.922	3.592	2.608	38.25	0.00	N
ATOM	622	CA	GLU	A	156	-15.736	4.438	2.670	38.25	0.00	C
ATOM	623	C	GLU	A	156	-14.720	3.888	3.663	38.25	0.00	C
ATOM	624	O	GLU	A	156	-14.979	3.833	4.865	38.25	0.00	O
ATOM	625	N	TYR	A	157	-13.562	3.482	3.152	48.68	0.00	N
ATOM	626	CA	TYR	A	157	-12.477	3.004	4.000	48.68	0.00	C
ATOM	627	C	TYR	A	157	-11.297	3.966	3.978	48.68	0.00	C
ATOM	628	O	TYR	A	157	-10.478	3.940	3.059	48.68	0.00	O
ATOM	629	N	GLU	A	158	-11.214	4.816	4.997	43.72	0.00	N
ATOM	630	CA	GLU	A	158	-10.190	5.853	5.049	43.72	0.00	C
ATOM	631	C	GLU	A	158	-8.832	5.268	5.414	43.72	0.00	C
ATOM	632	O	GLU	A	158	-8.739	4.351	6.229	43.72	0.00	O
ATOM	633	N	ILE	A	159	-7.780	5.804	4.806	48.13	0.00	N
ATOM	634	CA	ILE	A	159	-6.418	5.394	5.126	48.13	0.00	C
ATOM	635	C	ILE	A	159	-5.567	6.589	5.540	48.13	0.00	C
ATOM	636	O	ILE	A	159	-4.984	7.270	4.696	48.13	0.00	O
ATOM	637	N	ASN	A	160	-5.499	6.838	6.843	47.40	0.00	N
ATOM	638	CA	ASN	A	160	-4.645	7.891	7.379	47.40	0.00	C
ATOM	639	C	ASN	A	160	-3.216	7.401	7.567	47.40	0.00	C
ATOM	640	O	ASN	A	160	-2.960	6.197	7.584	47.40	0.00	O
ATOM	641	N	GLU	A	161	-2.287	8.340	7.710	37.06	0.00	N
ATOM	642	CA	GLU	A	161	-0.872	8.007	7.829	37.06	0.00	C
ATOM	643	C	GLU	A	161	-0.635	7.006	8.952	37.06	0.00	C
ATOM	644	O	GLU	A	161	0.008	5.976	8.752	37.06	0.00	O
ATOM	645	N	PRO	A	162	-1.158	7.315	10.133	52.91	0.00	N
ATOM	646	CA	PRO	A	162	-1.004	6.443	11.292	52.91	0.00	C
ATOM	647	C	PRO	A	162	-1.816	5.164	11.129	52.91	0.00	C
ATOM	648	O	PRO	A	162	-1.545	4.159	11.785	52.91	0.00	O
ATOM	649	N	LEU	A	163	-2.814	5.211	10.254	61.33	0.00	N
ATOM	650	CA	LEU	A	163	-3.684	4.064	10.022	61.33	0.00	C
ATOM	651	C	LEU	A	163	-3.203	3.238	8.836	61.33	0.00	C
ATOM	652	O	LEU	A	163	-3.698	2.138	8.591	61.33	0.00	O
ATOM	653	N	ASP	A	164	-2.234	3.775	8.102	23.30	0.00	N
ATOM	654	CA	ASP	A	164	-1.689	3.091	6.936	23.30	0.00	C
ATOM	655	C	ASP	A	164	-0.917	1.842	7.341	23.30	0.00	C
ATOM	656	O	ASP	A	164	-1.228	0.737	6.894	23.30	0.00	O
ATOM	657	N	GLU	A	165	0.090	2.023	8.189	46.45	0.00	N
ATOM	658	CA	GLU	A	165	0.911	0.911	8.650	46.45	0.00	C
ATOM	659	C	GLU	A	165	0.094	-0.069	9.484	46.45	0.00	C
ATOM	660	O	GLU	A	165	0.366	-1.270	9.491	46.45	0.00	O
ATOM	661	N	ALA	A	166	-0.908	0.451	10.185	53.02	0.00	N
ATOM	662	CA	ALA	A	166	-1.801	-0.384	10.978	53.02	0.00	C
ATOM	663	C	ALA	A	166	-2.565	-1.366	10.099	53.02	0.00	C
ATOM	664	O	ALA	A	166	-2.593	-2.567	10.372	53.02	0.00	O
ATOM	665	N	THR	A	167	-3.182	-0.850	9.042	42.30	0.00	N
ATOM	666	CA	THR	A	167	-3.903	-1.687	8.091	42.30	0.00	C
ATOM	667	C	THR	A	167	-2.961	-2.645	7.374	42.30	0.00	C
ATOM	668	O	THR	A	167	-3.296	-3.808	7.147	42.30	0.00	O
ATOM	669	N	ILE	A	168	-1.780	-2.150	7.019	51.74	0.00	N
ATOM	670	CA	ILE	A	168	-0.796	-2.953	6.305	51.74	0.00	C
ATOM	671	C	ILE	A	168	-0.370	-4.163	7.128	51.74	0.00	C
ATOM	672	O	ILE	A	168	-0.366	-5.291	6.637	51.74	0.00	O
ATOM	673	N	VAL	A	169	-0.011	-3.919	8.385	43.45	0.00	N
ATOM	674	CA	VAL	A	169	0.451	-4.982	9.269	43.45	0.00	C
ATOM	675	C	VAL	A	169	-0.661	-5.984	9.554	43.45	0.00	C
ATOM	676	O	VAL	A	169	-0.430	-7.193	9.580	43.45	0.00	O
ATOM	677	N	ARG	A	170	-1.869	-5.473	9.770	50.30	0.00	N
ATOM	678	CA	ARG	A	170	-3.019	-6.322	10.057	50.30	0.00	C
ATOM	679	C	ARG	A	170	-3.308	-7.268	8.898	50.30	0.00	C
ATOM	680	O	ARG	A	170	-3.557	-8.457	9.102	50.30	0.00	O
ATOM	681	N	LEU	A	171	-3.274	-6.734	7.682	43.66	0.00	N
ATOM	682	CA	LEU	A	171	-3.561	-7.523	6.490	43.66	0.00	C
ATOM	683	C	LEU	A	171	-2.431	-8.500	6.191	43.66	0.00	C
ATOM	684	O	LEU	A	171	-2.668	-9.612	5.720	43.66	0.00	O
ATOM	685	N	ALA	A	172	-1.202	-8.076	6.465	49.64	0.00	N
ATOM	686	CA	ALA	A	172	-0.037	-8.933	6.276	49.64	0.00	C
ATOM	687	C	ALA	A	172	-0.113	-10.170	7.162	49.64	0.00	C
ATOM	688	O	ALA	A	172	0.137	-11.286	6.710	49.64	0.00	O
ATOM	689	N	GLU	A	173	-0.459	-9.963	8.429	48.78	0.00	N
ATOM	690	CA	GLU	A	173	-0.573	-11.061	9.381	48.78	0.00	C
ATOM	691	C	GLU	A	173	-1.742	-11.974	9.032	48.78	0.00	C
ATOM	692	O	GLU	A	173	-1.639	-13.196	9.131	48.78	0.00	O
ATOM	693	N	ASP	A	174	-2.853	-11.372	8.623	38.26	0.00	N
ATOM	694	CA	ASP	A	174	-4.040	-12.130	8.244	38.26	0.00	C
ATOM	695	C	ASP	A	174	-3.777	-12.982	7.009	38.26	0.00	C
ATOM	696	O	ASP	A	174	-4.267	-14.108	6.904	38.26	0.00	O

ATOM	697	N	THR	A	175	-3.001	-12.442	6.076	43.17	0.00	N
ATOM	698	CA	THR	A	175	-2.617	-13.178	4.877	43.17	0.00	C
ATOM	699	C	THR	A	175	-1.702	-14.348	5.219	43.17	0.00	C
ATOM	700	O	THR	A	175	-1.824	-15.432	4.648	43.17	0.00	O
ATOM	701	N	ILE	A	176	-0.785	-14.123	6.154	18.83	0.00	N
ATOM	702	CA	ILE	A	176	0.078	-15.186	6.653	18.83	0.00	C
ATOM	703	C	ILE	A	176	-0.736	-16.295	7.307	18.83	0.00	C
ATOM	704	O	ILE	A	176	-0.441	-17.478	7.138	18.83	0.00	O
ATOM	705	N	MET	A	177	-1.762	-15.905	8.056	33.37	0.00	N
ATOM	706	CA	MET	A	177	-2.672	-16.865	8.668	33.37	0.00	C
ATOM	707	C	MET	A	177	-3.453	-17.635	7.611	33.37	0.00	C
ATOM	708	O	MET	A	177	-3.750	-18.817	7.783	33.37	0.00	O
ATOM	709	N	LEU	A	178	-3.785	-16.956	6.518	30.21	0.00	N
ATOM	710	CA	LEU	A	178	-4.422	-17.605	5.378	30.21	0.00	C
ATOM	711	C	LEU	A	178	-3.493	-18.628	4.735	30.21	0.00	C
ATOM	712	O	LEU	A	178	-3.928	-19.705	4.328	30.21	0.00	O
ATOM	713	N	GLN	A	179	-2.213	-18.284	4.650	48.05	0.00	N
ATOM	714	CA	GLN	A	179	-1.207	-19.202	4.128	48.05	0.00	C
ATOM	715	C	GLN	A	179	-1.049	-20.417	5.034	48.05	0.00	C
ATOM	716	O	GLN	A	179	-0.894	-21.542	4.558	48.05	0.00	O
ATOM	717	N	ASN	A	180	-1.089	-20.184	6.342	39.77	0.00	N
ATOM	718	CA	ASN	A	180	-0.967	-21.261	7.316	39.77	0.00	C
ATOM	719	C	ASN	A	180	-2.208	-22.145	7.318	39.77	0.00	C
ATOM	720	O	ASN	A	180	-2.112	-23.364	7.467	39.77	0.00	O
ATOM	721	N	SER	A	181	-3.371	-21.525	7.152	58.29	0.00	N
ATOM	722	CA	SER	A	181	-4.634	-22.252	7.157	58.29	0.00	C
ATOM	723	C	SER	A	181	-5.577	-21.726	6.083	58.29	0.00	C
ATOM	724	O	SER	A	181	-6.097	-20.615	6.189	58.29	0.00	O
ATOM	725	N	PRO	A	182	-5.793	-22.529	5.047	63.56	0.00	N
ATOM	726	CA	PRO	A	182	-6.665	-22.142	3.945	63.56	0.00	C
ATOM	727	C	PRO	A	182	-8.071	-21.826	4.441	63.56	0.00	C
ATOM	728	O	PRO	A	182	-8.808	-21.071	3.807	63.56	0.00	O
ATOM	729	N	ARG	A	183	-8.437	-22.408	5.578	84.53	0.00	N
ATOM	730	CA	ARG	A	183	-9.784	-22.261	6.115	84.53	0.00	C
ATOM	731	C	ARG	A	183	-9.944	-20.931	6.841	84.53	0.00	C
ATOM	732	O	ARG	A	183	-11.027	-20.605	7.329	84.53	0.00	O
ATOM	733	N	PHE	A	184	-8.860	-20.165	6.910	54.72	0.00	N
ATOM	734	CA	PHE	A	184	-8.908	-18.820	7.469	54.72	0.00	C
ATOM	735	C	PHE	A	184	-9.933	-17.957	6.744	54.72	0.00	C
ATOM	736	O	PHE	A	184	-9.987	-17.943	5.513	54.72	0.00	O
ATOM	737	N	ASN	A	185	-10.744	-17.240	7.513	64.00	0.00	N
ATOM	738	CA	ASN	A	185	-11.822	-16.436	6.948	64.00	0.00	C
ATOM	739	C	ASN	A	185	-11.289	-15.143	6.346	64.00	0.00	C
ATOM	740	O	ASN	A	185	-11.490	-14.061	6.897	64.00	0.00	O
ATOM	741	N	TRP	A	186	-10.607	-15.261	5.212	35.33	0.00	N
ATOM	742	CA	TRP	A	186	-10.074	-14.098	4.513	35.33	0.00	C
ATOM	743	C	TRP	A	186	-11.179	-13.330	3.799	35.33	0.00	C
ATOM	744	O	TRP	A	186	-11.593	-13.699	2.699	35.33	0.00	O
ATOM	745	N	GLU	A	187	-11.652	-12.260	4.428	83.66	0.00	N
ATOM	746	CA	GLU	A	187	-12.692	-11.424	3.843	83.66	0.00	C
ATOM	747	C	GLU	A	187	-12.150	-10.047	3.478	83.66	0.00	C
ATOM	748	O	GLU	A	187	-12.880	-9.055	3.507	83.66	0.00	O
ATOM	749	N	CYS	A	188	-10.868	-9.993	3.136	55.50	0.00	N
ATOM	750	CA	CYS	A	188	-10.201	-8.724	2.866	55.50	0.00	C
ATOM	751	C	CYS	A	188	-9.600	-8.706	1.466	55.50	0.00	C
ATOM	752	O	CYS	A	188	-8.540	-8.122	1.242	55.50	0.00	O
ATOM	753	N	LYS	A	189	-10.284	-9.349	0.525	7.38	0.00	N
ATOM	754	CA	LYS	A	189	-9.826	-9.397	-0.858	7.38	0.00	C
ATOM	755	C	LYS	A	189	-9.871	-8.018	-1.502	7.38	0.00	C
ATOM	756	O	LYS	A	189	-9.092	-7.720	-2.408	7.38	0.00	O
ATOM	757	N	TYR	A	190	-10.785	-7.178	-1.028	22.21	0.00	N
ATOM	758	CA	TYR	A	190	-11.014	-5.873	-1.634	22.21	0.00	C
ATOM	759	C	TYR	A	190	-9.855	-4.925	-1.358	22.21	0.00	C
ATOM	760	O	TYR	A	190	-9.667	-3.935	-2.065	22.21	0.00	O
ATOM	761	N	CYS	A	191	-9.077	-5.235	-0.326	36.59	0.00	N
ATOM	762	CA	CYS	A	191	-8.007	-4.351	0.120	36.59	0.00	C
ATOM	763	C	CYS	A	191	-6.916	-4.232	-0.937	36.59	0.00	C
ATOM	764	O	CYS	A	191	-6.617	-5.192	-1.646	36.59	0.00	O
ATOM	765	N	ILE	A	192	-6.322	-3.047	-1.036	43.02	0.00	N
ATOM	766	CA	ILE	A	192	-5.291	-2.788	-2.034	43.02	0.00	C
ATOM	767	C	ILE	A	192	-3.972	-3.441	-1.644	43.02	0.00	C
ATOM	768	O	ILE	A	192	-3.026	-3.471	-2.432	43.02	0.00	O
ATOM	769	N	PHE	A	193	-3.913	-3.963	-0.424	49.91	0.00	N
ATOM	770	CA	PHE	A	193	-2.723	-4.654	0.057	49.91	0.00	C
ATOM	771	C	PHE	A	193	-2.884	-6.166	-0.045	49.91	0.00	C
ATOM	772	O	PHE	A	193	-1.976	-6.922	0.300	49.91	0.00	O
ATOM	773	N	SER	A	194	-4.046	-6.600	-0.522	41.94	0.00	N
ATOM	774	CA	SER	A	194	-4.344	-8.023	-0.633	41.94	0.00	C
ATOM	775	C	SER	A	194	-3.534	-8.671	-1.748	41.94	0.00	C
ATOM	776	O	SER	A	194	-3.431	-9.895	-1.825	41.94	0.00	O
ATOM	777	N	VAL	A	195	-2.958	-7.841	-2.612	53.52	0.00	N
ATOM	778	CA	VAL	A	195	-2.196	-8.333	-3.755	53.52	0.00	C
ATOM	779	C	VAL	A	195	-0.698	-8.192	-3.518	53.52	0.00	C
ATOM	780	O	VAL	A	195	0.110	-8.493	-4.397	53.52	0.00	O
ATOM	781	N	ILE	A	196	-0.333	-7.735	-2.326	37.19	0.00	N
ATOM	782	CA	ILE	A	196	1.067	-7.506	-1.988	37.19	0.00	C
ATOM	783	C	ILE	A	196	1.562	-8.525	-0.969	37.19	0.00	C
ATOM	784	O	ILE	A	196	0.962	-8.698	0.091	37.19	0.00	O
ATOM	785	N	CYS	A	197	2.660	-9.197	-1.299	45.29	0.00	N
ATOM	786	CA	CYS	A	197	3.252	-10.182	-0.401	45.29	0.00	C
ATOM	787	C	CYS	A	197	3.413	-9.620	1.005	45.29	0.00	C
ATOM	788	O	CYS	A	197	3.892	-8.500	1.185	45.29	0.00	O

ATOM	789	N	PRO	A	198	3.011	-10.404	1.999	31.76	0.00	N
ATOM	790	CA	PRO	A	198	3.098	-9.980	3.392	31.76	0.00	C
ATOM	791	C	PRO	A	198	4.512	-9.537	3.746	31.76	0.00	C
ATOM	792	O	PRO	A	198	4.704	-8.625	4.550	31.76	0.00	O
ATOM	793	N	ALA	A	199	5.499	-10.189	3.142	39.98	0.00	N
ATOM	794	CA	ALA	A	199	6.898	-9.850	3.377	39.98	0.00	C
ATOM	795	C	ALA	A	199	7.216	-8.447	2.878	39.98	0.00	C
ATOM	796	O	ALA	A	199	7.970	-7.708	3.512	39.98	0.00	O
ATOM	797	N	LYS	A	200	6.637	-8.083	1.739	26.21	0.00	N
ATOM	798	CA	LYS	A	200	6.827	-6.754	1.173	26.21	0.00	C
ATOM	799	C	LYS	A	200	6.074	-5.699	1.976	26.21	0.00	C
ATOM	800	O	LYS	A	200	6.531	-4.565	2.110	26.21	0.00	O
ATOM	801	N	LEU	A	201	4.919	-6.083	2.509	31.76	0.00	N
ATOM	802	CA	LEU	A	201	4.111	-5.178	3.318	31.76	0.00	C
ATOM	803	C	LEU	A	201	4.853	-4.757	4.580	31.76	0.00	C
ATOM	804	O	LEU	A	201	5.399	-5.593	5.299	31.76	0.00	O
ATOM	805	N	THR	A	202	4.870	-3.453	4.843	46.74	0.00	N
ATOM	806	CA	THR	A	202	5.512	-2.923	6.038	46.74	0.00	C
ATOM	807	C	THR	A	202	5.197	-3.777	7.260	46.74	0.00	C
ATOM	808	O	THR	A	202	5.799	-4.797	7.449	46.74	0.00	O
TER	809		THR	A	202						
ENDMDL											
END											
REMARK	1	*****									
REMARK	1	Start File DEC3_vs_NAT_dSi_colored.pdb									
REMARK	1	The occupancy record was modified to represent dSi := Si(DEC)-Si(NAT).									
REMARK	1	Occ=0.00 means dSi=-1.285567 kB; Occ=99.99 means dSi=1.380460 kB.									
MODEL	0										
ATOM	1	N	MET	A	1	15.717	15.959	-1.793	40.19	0.00	N
ATOM	2	CA	MET	A	1	17.073	15.585	-2.177	40.19	0.00	C
ATOM	3	C	MET	A	1	17.455	14.228	-1.600	40.19	0.00	C
ATOM	4	O	MET	A	1	17.587	13.247	-2.332	40.19	0.00	O
ATOM	5	N	ILE	A	2	17.631	14.179	-0.284	42.66	0.00	N
ATOM	6	CA	ILE	A	2	18.039	12.952	0.389	42.66	0.00	C
ATOM	7	C	ILE	A	2	16.948	11.892	0.311	42.66	0.00	C
ATOM	8	O	ILE	A	2	17.218	10.730	0.007	42.66	0.00	O
ATOM	9	N	THR	A	3	15.714	12.299	0.588	29.88	0.00	N
ATOM	10	CA	THR	A	3	14.570	11.399	0.496	29.88	0.00	C
ATOM	11	C	THR	A	3	14.412	10.851	-0.917	29.88	0.00	C
ATOM	12	O	THR	A	3	14.157	9.663	-1.107	29.88	0.00	O
ATOM	13	N	GLU	A	4	14.567	11.725	-1.906	21.02	0.00	N
ATOM	14	CA	GLU	A	4	14.482	11.323	-3.305	21.02	0.00	C
ATOM	15	C	GLU	A	4	15.518	10.256	-3.635	21.02	0.00	C
ATOM	16	O	GLU	A	4	15.204	9.246	-4.264	21.02	0.00	O
ATOM	17	N	PHE	A	5	16.755	10.488	-3.207	47.14	0.00	N
ATOM	18	CA	PHE	A	5	17.824	9.515	-3.394	47.14	0.00	C
ATOM	19	C	PHE	A	5	17.471	8.178	-2.756	47.14	0.00	C
ATOM	20	O	PHE	A	5	17.612	7.125	-3.378	47.14	0.00	O
ATOM	21	N	LEU	A	6	17.011	8.226	-1.510	26.94	0.00	N
ATOM	22	CA	LEU	A	6	16.722	7.014	-0.753	26.94	0.00	C
ATOM	23	C	LEU	A	6	15.610	6.206	-1.410	26.94	0.00	C
ATOM	24	O	LEU	A	6	15.634	4.975	-1.398	26.94	0.00	O
ATOM	25	N	LEU	A	7	14.637	6.906	-1.983	35.53	0.00	N
ATOM	26	CA	LEU	A	7	13.545	6.256	-2.699	35.53	0.00	C
ATOM	27	C	LEU	A	7	14.036	5.624	-3.995	35.53	0.00	C
ATOM	28	O	LEU	A	7	13.613	4.527	-4.362	35.53	0.00	O
ATOM	29	N	LYS	A	8	14.931	6.323	-4.687	28.46	0.00	N
ATOM	30	CA	LYS	A	8	15.507	5.815	-5.926	28.46	0.00	C
ATOM	31	C	LYS	A	8	16.289	4.529	-5.683	28.46	0.00	C
ATOM	32	O	LYS	A	8	16.499	3.737	-6.601	28.46	0.00	O
ATOM	33	N	LYS	A	9	16.717	4.329	-4.442	81.62	0.00	N
ATOM	34	CA	LYS	A	9	17.499	3.153	-4.082	81.62	0.00	C
ATOM	35	C	LYS	A	9	16.639	2.115	-3.372	81.62	0.00	C
ATOM	36	O	LYS	A	9	16.899	0.915	-3.458	81.62	0.00	O
ATOM	37	N	LYS	A	10	15.614	2.585	-2.670	48.84	0.00	N
ATOM	38	CA	LYS	A	10	14.723	1.700	-1.928	48.84	0.00	C
ATOM	39	C	LYS	A	10	13.432	1.449	-2.696	48.84	0.00	C
ATOM	40	O	LYS	A	10	13.126	0.314	-3.060	48.84	0.00	O
ATOM	41	N	LEU	A	11	12.677	2.515	-2.938	40.34	0.00	N
ATOM	42	CA	LEU	A	11	11.351	2.395	-3.532	40.34	0.00	C
ATOM	43	C	LEU	A	11	11.410	1.677	-4.874	40.34	0.00	C
ATOM	44	O	LEU	A	11	10.698	0.697	-5.096	40.34	0.00	O
ATOM	45	N	GLU	A	12	12.263	2.169	-5.765	37.85	0.00	N
ATOM	46	CA	GLU	A	12	12.368	1.616	-7.111	37.85	0.00	C
ATOM	47	C	GLU	A	12	12.706	0.131	-7.071	37.85	0.00	C
ATOM	48	O	GLU	A	12	12.113	-0.669	-7.794	37.85	0.00	O
ATOM	49	N	GLU	A	13	13.660	-0.231	-6.220	55.83	0.00	N
ATOM	50	CA	GLU	A	13	14.115	-1.614	-6.123	55.83	0.00	C
ATOM	51	C	GLU	A	13	13.057	-2.498	-5.477	55.83	0.00	C
ATOM	52	O	GLU	A	13	12.820	-3.622	-5.917	55.83	0.00	O
ATOM	53	N	HIS	A	14	12.423	-1.983	-4.429	31.91	0.00	N
ATOM	54	CA	HIS	A	14	11.494	-2.774	-3.631	31.91	0.00	C
ATOM	55	C	HIS	A	14	10.225	-3.088	-4.413	31.91	0.00	C
ATOM	56	O	HIS	A	14	9.590	-4.119	-4.196	31.91	0.00	O
ATOM	57	N	LEU	A	15	9.860	-2.191	-5.324	27.01	0.00	N
ATOM	58	CA	LEU	A	15	8.730	-2.421	-6.215	27.01	0.00	C
ATOM	59	C	LEU	A	15	9.048	-3.500	-7.242	27.01	0.00	C
ATOM	60	O	LEU	A	15	8.199	-4.326	-7.573	27.01	0.00	O
ATOM	61	N	SER	A	16	10.279	-3.486	-7.745	43.85	0.00	N
ATOM	62	CA	SER	A	16	10.703	-4.444	-8.758	43.85	0.00	C
ATOM	63	C	SER	A	16	11.022	-5.798	-8.138	43.85	0.00	C
ATOM	64	O	SER	A	16	11.035	-6.820	-8.825	43.85	0.00	O

ATOM	65	N	HIS	A	17	11.279	-5.801	-6.834	38.37	0.00	N
ATOM	66	CA	HIS	A	17	11.537	-7.037	-6.105	38.37	0.00	C
ATOM	67	C	HIS	A	17	10.237	-7.741	-5.738	38.37	0.00	C
ATOM	68	O	HIS	A	17	9.224	-7.094	-5.469	38.37	0.00	O
ATOM	69	N	VAL	A	18	10.271	-9.069	-5.728	36.75	0.00	N
ATOM	70	CA	VAL	A	18	9.073	-9.864	-5.485	36.75	0.00	C
ATOM	71	C	VAL	A	18	8.917	-10.185	-4.005	36.75	0.00	C
ATOM	72	O	VAL	A	18	7.844	-9.998	-3.429	36.75	0.00	O
ATOM	73	N	LYS	A	19	9.991	-10.671	-3.392	47.79	0.00	N
ATOM	74	CA	LYS	A	19	9.924	-11.212	-2.040	47.79	0.00	C
ATOM	75	C	LYS	A	19	10.379	-10.184	-1.012	47.79	0.00	C
ATOM	76	O	LYS	A	19	10.461	-10.478	0.180	47.79	0.00	O
ATOM	77	N	GLU	A	20	10.677	-8.977	-1.481	14.56	0.00	N
ATOM	78	CA	GLU	A	20	11.192	-7.924	-0.614	14.56	0.00	C
ATOM	79	C	GLU	A	20	10.273	-7.693	0.578	14.56	0.00	C
ATOM	80	O	GLU	A	20	9.141	-7.234	0.422	14.56	0.00	O
ATOM	81	N	GLU	A	21	10.765	-8.013	1.769	5.07	0.00	N
ATOM	82	CA	GLU	A	21	10.006	-7.800	2.995	5.07	0.00	C
ATOM	83	C	GLU	A	21	10.454	-6.530	3.707	5.07	0.00	C
ATOM	84	O	GLU	A	21	9.890	-6.150	4.733	5.07	0.00	O
ATOM	85	N	ASN	A	22	11.473	-5.878	3.157	50.91	0.00	N
ATOM	86	CA	ASN	A	22	12.082	-4.722	3.805	50.91	0.00	C
ATOM	87	C	ASN	A	22	11.209	-3.483	3.655	50.91	0.00	C
ATOM	88	O	ASN	A	22	10.835	-3.105	2.545	50.91	0.00	O
ATOM	89	N	THR	A	23	10.886	-2.854	4.780	46.08	0.00	N
ATOM	90	CA	THR	A	23	10.092	-1.631	4.774	46.08	0.00	C
ATOM	91	C	THR	A	23	10.944	-0.423	4.404	46.08	0.00	C
ATOM	92	O	THR	A	23	12.096	-0.313	4.823	46.08	0.00	O
ATOM	93	N	ILE	A	24	10.370	0.481	3.617	51.79	0.00	N
ATOM	94	CA	ILE	A	24	11.071	1.689	3.201	51.79	0.00	C
ATOM	95	C	ILE	A	24	11.001	2.765	4.277	51.79	0.00	C
ATOM	96	O	ILE	A	24	9.919	3.238	4.626	51.79	0.00	O
ATOM	97	N	TYR	A	25	12.160	3.146	4.802	52.24	0.00	N
ATOM	98	CA	TYR	A	25	12.256	4.292	5.699	52.24	0.00	C
ATOM	99	C	TYR	A	25	13.173	5.365	5.127	52.24	0.00	C
ATOM	100	O	TYR	A	25	14.305	5.082	4.733	52.24	0.00	O
ATOM	101	N	VAL	A	26	12.679	6.597	5.084	68.16	0.00	N
ATOM	102	CA	VAL	A	26	13.417	7.699	4.478	68.16	0.00	C
ATOM	103	C	VAL	A	26	13.369	8.943	5.355	68.16	0.00	C
ATOM	104	O	VAL	A	26	12.603	9.007	6.317	68.16	0.00	O
ATOM	105	N	THR	A	27	14.191	9.931	5.017	51.67	0.00	N
ATOM	106	CA	THR	A	27	14.295	11.146	5.815	51.67	0.00	C
ATOM	107	C	THR	A	27	12.926	11.773	6.047	51.67	0.00	C
ATOM	108	O	THR	A	27	12.628	12.248	7.142	51.67	0.00	O
ATOM	109	N	ASP	A	28	12.098	11.773	5.008	63.07	0.00	N
ATOM	110	CA	ASP	A	28	10.740	12.295	5.111	63.07	0.00	C
ATOM	111	C	ASP	A	28	9.940	11.547	6.169	63.07	0.00	C
ATOM	112	O	ASP	A	28	9.165	12.147	6.914	63.07	0.00	O
ATOM	113	N	LEU	A	29	10.130	10.234	6.228	61.09	0.00	N
ATOM	114	CA	LEU	A	29	9.417	9.399	7.187	61.09	0.00	C
ATOM	115	C	LEU	A	29	9.989	9.559	8.589	61.09	0.00	C
ATOM	116	O	LEU	A	29	9.325	9.252	9.581	61.09	0.00	O
ATOM	117	N	VAL	A	30	11.223	10.043	8.667	62.86	0.00	N
ATOM	118	CA	VAL	A	30	11.830	10.394	9.947	62.86	0.00	C
ATOM	119	C	VAL	A	30	11.217	11.665	10.518	62.86	0.00	C
ATOM	120	O	VAL	A	30	10.906	11.737	11.707	62.86	0.00	O
ATOM	121	N	ARG	A	31	11.043	12.668	9.662	99.99	0.00	N
ATOM	122	CA	ARG	A	31	10.462	13.938	10.080	99.99	0.00	C
ATOM	123	C	ARG	A	31	8.951	13.831	10.229	99.99	0.00	C
ATOM	124	O	ARG	A	31	8.327	14.635	10.920	99.99	0.00	O
ATOM	125	N	CYS	A	32	8.367	12.832	9.575	60.45	0.00	N
ATOM	126	CA	CYS	A	32	6.926	12.617	9.635	60.45	0.00	C
ATOM	127	C	CYS	A	32	6.474	12.301	11.056	60.45	0.00	C
ATOM	128	O	CYS	A	32	7.039	11.432	11.719	60.45	0.00	O
ATOM	129	N	PRO	A	33	5.452	13.014	11.517	51.71	0.00	N
ATOM	130	CA	PRO	A	33	4.979	12.874	12.889	51.71	0.00	C
ATOM	131	C	PRO	A	33	4.308	11.524	13.106	51.71	0.00	C
ATOM	132	O	PRO	A	33	4.182	11.057	14.237	51.71	0.00	O
ATOM	133	N	ARG	A	34	3.879	10.901	12.013	62.60	0.00	N
ATOM	134	CA	ARG	A	34	3.235	9.593	12.080	62.60	0.00	C
ATOM	135	C	ARG	A	34	4.198	8.531	12.593	62.60	0.00	C
ATOM	136	O	ARG	A	34	3.780	7.533	13.181	62.60	0.00	O
ATOM	137	N	ARG	A	35	5.489	8.751	12.369	46.60	0.00	N
ATOM	138	CA	ARG	A	35	6.523	7.897	12.942	46.60	0.00	C
ATOM	139	C	ARG	A	35	6.502	7.955	14.464	46.60	0.00	C
ATOM	140	O	ARG	A	35	6.350	6.931	15.131	46.60	0.00	O
ATOM	141	N	VAL	A	36	6.658	9.156	15.008	66.80	0.00	N
ATOM	142	CA	VAL	A	36	6.602	9.357	16.451	66.80	0.00	C
ATOM	143	C	VAL	A	36	5.312	8.799	17.036	66.80	0.00	C
ATOM	144	O	VAL	A	36	5.309	8.231	18.129	66.80	0.00	O
ATOM	145	N	ARG	A	37	4.216	8.963	16.303	57.00	0.00	N
ATOM	146	CA	ARG	A	37	2.920	8.452	16.736	57.00	0.00	C
ATOM	147	C	ARG	A	37	2.989	6.960	17.032	57.00	0.00	C
ATOM	148	O	ARG	A	37	2.729	6.528	18.155	57.00	0.00	O
ATOM	149	N	TYR	A	38	3.339	6.175	16.018	57.26	0.00	N
ATOM	150	CA	TYR	A	38	3.290	4.722	16.121	57.26	0.00	C
ATOM	151	C	TYR	A	38	4.371	4.200	17.060	57.26	0.00	C
ATOM	152	O	TYR	A	38	4.275	3.086	17.574	57.26	0.00	O
ATOM	153	N	GLU	A	39	5.399	5.013	17.280	53.99	0.00	N
ATOM	154	CA	GLU	A	39	6.439	4.687	18.247	53.99	0.00	C
ATOM	155	C	GLU	A	39	5.926	4.818	19.675	53.99	0.00	C
ATOM	156	O	GLU	A	39	6.235	3.992	20.534	53.99	0.00	O

ATOM	157	N	SER	A	40	5.142	5.861	19.923	43.00	0.00	N
ATOM	158	CA	SER	A	40	4.590	6.107	21.249	43.00	0.00	C
ATOM	159	C	SER	A	40	3.390	5.208	21.522	43.00	0.00	C
ATOM	160	O	SER	A	40	3.126	4.840	22.667	43.00	0.00	O
ATOM	161	N	GLU	A	41	2.666	4.859	20.465	45.51	0.00	N
ATOM	162	CA	GLU	A	41	1.539	3.941	20.578	45.51	0.00	C
ATOM	163	C	GLU	A	41	2.010	2.495	20.648	45.51	0.00	C
ATOM	164	O	GLU	A	41	1.448	1.684	21.387	45.51	0.00	O
ATOM	165	N	TYR	A	42	3.042	2.175	19.876	33.77	0.00	N
ATOM	166	CA	TYR	A	42	3.543	0.809	19.793	33.77	0.00	C
ATOM	167	C	TYR	A	42	5.049	0.759	20.023	33.77	0.00	C
ATOM	168	O	TYR	A	42	5.831	0.739	19.073	33.77	0.00	O
ATOM	169	N	LYS	A	43	5.448	0.740	21.290	72.52	0.00	N
ATOM	170	CA	LYS	A	43	6.860	0.797	21.648	72.52	0.00	C
ATOM	171	C	LYS	A	43	7.605	-0.435	21.154	72.52	0.00	C
ATOM	172	O	LYS	A	43	8.834	-0.442	21.079	72.52	0.00	O
ATOM	173	N	GLU	A	44	6.854	-1.479	20.817	49.66	0.00	N
ATOM	174	CA	GLU	A	44	7.442	-2.712	20.306	49.66	0.00	C
ATOM	175	C	GLU	A	44	7.858	-2.562	18.849	49.66	0.00	C
ATOM	176	O	GLU	A	44	8.681	-3.327	18.346	49.66	0.00	O
ATOM	177	N	LEU	A	45	7.284	-1.571	18.173	32.70	0.00	N
ATOM	178	CA	LEU	A	45	7.631	-1.287	16.787	32.70	0.00	C
ATOM	179	C	LEU	A	45	8.817	-0.335	16.701	32.70	0.00	C
ATOM	180	O	LEU	A	45	8.721	0.829	17.091	32.70	0.00	O
ATOM	181	N	ALA	A	46	9.935	-0.835	16.186	71.21	0.00	N
ATOM	182	CA	ALA	A	46	11.113	-0.005	15.961	71.21	0.00	C
ATOM	183	C	ALA	A	46	11.066	0.659	14.591	71.21	0.00	C
ATOM	184	O	ALA	A	46	10.107	0.484	13.838	71.21	0.00	O
ATOM	185	N	ILE	A	47	12.105	1.423	14.273	54.66	0.00	N
ATOM	186	CA	ILE	A	47	12.244	2.014	12.947	54.66	0.00	C
ATOM	187	C	ILE	A	47	12.897	1.040	11.975	54.66	0.00	C
ATOM	188	O	ILE	A	47	13.064	1.343	10.795	54.66	0.00	O
ATOM	189	N	SER	A	48	13.263	-0.135	12.480	68.54	0.00	N
ATOM	190	CA	SER	A	48	13.922	-1.147	11.663	68.54	0.00	C
ATOM	191	C	SER	A	48	13.028	-1.593	10.512	68.54	0.00	C
ATOM	192	O	SER	A	48	11.802	-1.554	10.615	68.54	0.00	O
ATOM	193	N	GLN	A	49	13.649	-2.016	9.417	57.91	0.00	N
ATOM	194	CA	GLN	A	49	12.917	-2.354	8.203	57.91	0.00	C
ATOM	195	C	GLN	A	49	12.108	-3.632	8.385	57.91	0.00	C
ATOM	196	O	GLN	A	49	11.270	-3.973	7.550	57.91	0.00	O
ATOM	197	N	VAL	A	50	12.367	-4.338	9.481	53.84	0.00	N
ATOM	198	CA	VAL	A	50	11.641	-5.564	9.790	53.84	0.00	C
ATOM	199	C	VAL	A	50	10.234	-5.262	10.286	53.84	0.00	C
ATOM	200	O	VAL	A	50	9.370	-6.138	10.306	53.84	0.00	O
ATOM	201	N	TYR	A	51	10.009	-4.015	10.689	36.40	0.00	N
ATOM	202	CA	TYR	A	51	8.685	-3.572	11.106	36.40	0.00	C
ATOM	203	C	TYR	A	51	8.016	-2.735	10.022	36.40	0.00	C
ATOM	204	O	TYR	A	51	8.683	-2.004	9.290	36.40	0.00	O
ATOM	205	N	ALA	A	52	6.696	-2.847	9.925	43.22	0.00	N
ATOM	206	CA	ALA	A	52	5.947	-2.179	8.867	43.22	0.00	C
ATOM	207	C	ALA	A	52	4.621	-1.639	9.388	43.22	0.00	C
ATOM	208	O	ALA	A	52	3.562	-2.210	9.128	43.22	0.00	O
ATOM	209	N	PRO	A	53	4.686	-0.534	10.124	57.51	0.00	N
ATOM	210	CA	PRO	A	53	3.485	0.166	10.563	57.51	0.00	C
ATOM	211	C	PRO	A	53	2.601	0.537	9.379	57.51	0.00	C
ATOM	212	O	PRO	A	53	3.090	0.990	8.344	57.51	0.00	O
ATOM	213	N	SER	A	54	1.296	0.341	9.537	25.24	0.00	N
ATOM	214	CA	SER	A	54	0.344	0.621	8.469	25.24	0.00	C
ATOM	215	C	SER	A	54	0.390	2.088	8.060	25.24	0.00	C
ATOM	216	O	SER	A	54	0.311	2.415	6.877	25.24	0.00	O
ATOM	217	N	ALA	A	55	0.519	2.968	9.047	34.28	0.00	N
ATOM	218	CA	ALA	A	55	0.611	4.400	8.789	34.28	0.00	C
ATOM	219	C	ALA	A	55	1.834	4.730	7.945	34.28	0.00	C
ATOM	220	O	ALA	A	55	1.754	5.514	6.998	34.28	0.00	O
ATOM	221	N	ILE	A	56	2.967	4.128	8.292	33.53	0.00	N
ATOM	222	CA	ILE	A	56	4.201	4.326	7.541	33.53	0.00	C
ATOM	223	C	ILE	A	56	4.067	3.812	6.114	33.53	0.00	C
ATOM	224	O	ILE	A	56	4.529	4.449	5.168	33.53	0.00	O
ATOM	225	N	LEU	A	57	3.430	2.655	5.965	18.72	0.00	N
ATOM	226	CA	LEU	A	57	3.215	2.062	4.651	18.72	0.00	C
ATOM	227	C	LEU	A	57	2.392	2.983	3.759	18.72	0.00	C
ATOM	228	O	LEU	A	57	2.704	3.164	2.582	18.72	0.00	O
ATOM	229	N	GLY	A	58	1.340	3.563	4.326	37.26	0.00	N
ATOM	230	CA	GLY	A	58	0.519	4.532	3.609	37.26	0.00	C
ATOM	231	C	GLY	A	58	1.338	5.748	3.197	37.26	0.00	C
ATOM	232	O	GLY	A	58	1.166	6.281	2.101	37.26	0.00	O
ATOM	233	N	ASP	A	59	2.229	6.183	4.082	27.71	0.00	N
ATOM	234	CA	ASP	A	59	3.118	7.301	3.787	27.71	0.00	C
ATOM	235	C	ASP	A	59	4.093	6.950	2.670	27.71	0.00	C
ATOM	236	O	ASP	A	59	4.476	7.808	1.876	27.71	0.00	O
ATOM	237	N	ILE	A	60	4.491	5.683	2.615	13.66	0.00	N
ATOM	238	CA	ILE	A	60	5.377	5.204	1.562	13.66	0.00	C
ATOM	239	C	ILE	A	60	4.706	5.288	0.197	13.66	0.00	C
ATOM	240	O	ILE	A	60	5.339	5.649	-0.796	13.66	0.00	O
ATOM	241	N	LEU	A	61	3.422	4.953	0.153	31.03	0.00	N
ATOM	242	CA	LEU	A	61	2.624	5.129	-1.056	31.03	0.00	C
ATOM	243	C	LEU	A	61	2.564	6.594	-1.467	31.03	0.00	C
ATOM	244	O	LEU	A	61	2.735	6.927	-2.640	31.03	0.00	O
ATOM	245	N	HIS	A	62	2.319	7.466	-0.495	54.69	0.00	N
ATOM	246	CA	HIS	A	62	2.326	8.905	-0.737	54.69	0.00	C
ATOM	247	C	HIS	A	62	3.643	9.352	-1.358	54.69	0.00	C
ATOM	248	O	HIS	A	62	3.659	10.143	-2.301	54.69	0.00	O



ATOM	249	N	LEU	A	63	4.747	8.840	-0.824	12.94	0.00	N
ATOM	250	CA	LEU	A	63	6.068	9.130	-1.371	12.94	0.00	C
ATOM	251	C	LEU	A	63	6.174	8.684	-2.823	12.94	0.00	C
ATOM	252	O	LEU	A	63	6.720	9.398	-3.664	12.94	0.00	O
ATOM	253	N	GLY	A	64	5.648	7.498	-3.112	20.96	0.00	N
ATOM	254	CA	GLY	A	64	5.639	6.975	-4.473	20.96	0.00	C
ATOM	255	C	GLY	A	64	4.808	7.857	-5.397	20.96	0.00	C
ATOM	256	O	GLY	A	64	5.144	8.035	-6.568	20.96	0.00	O
ATOM	257	N	LEU	A	65	3.723	8.406	-4.863	35.09	0.00	N
ATOM	258	CA	LEU	A	65	2.849	9.280	-5.636	35.09	0.00	C
ATOM	259	C	LEU	A	65	3.509	10.628	-5.898	35.09	0.00	C
ATOM	260	O	LEU	A	65	3.293	11.242	-6.943	35.09	0.00	O
ATOM	261	N	GLU	A	66	4.315	11.082	-4.945	79.25	0.00	N
ATOM	262	CA	GLU	A	66	5.106	12.294	-5.123	79.25	0.00	C
ATOM	263	C	GLU	A	66	6.216	12.081	-6.143	79.25	0.00	C
ATOM	264	O	GLU	A	66	6.584	13.001	-6.875	79.25	0.00	O
ATOM	265	N	SER	A	67	6.746	10.865	-6.188	33.56	0.00	N
ATOM	266	CA	SER	A	67	7.708	10.485	-7.217	33.56	0.00	C
ATOM	267	C	SER	A	67	7.071	10.507	-8.601	33.56	0.00	C
ATOM	268	O	SER	A	67	7.690	10.938	-9.573	33.56	0.00	O
ATOM	269	N	VAL	A	68	5.829	10.040	-8.683	22.61	0.00	N
ATOM	270	CA	VAL	A	68	5.062	10.116	-9.921	22.61	0.00	C
ATOM	271	C	VAL	A	68	4.839	11.562	-10.341	22.61	0.00	C
ATOM	272	O	VAL	A	68	4.997	11.911	-11.511	22.61	0.00	O
ATOM	273	N	LEU	A	69	4.467	12.402	-9.381	39.64	0.00	N
ATOM	274	CA	LEU	A	69	4.276	13.824	-9.638	39.64	0.00	C
ATOM	275	C	LEU	A	69	5.544	14.460	-10.194	39.64	0.00	C
ATOM	276	O	LEU	A	69	5.513	15.133	-11.224	39.64	0.00	O
ATOM	277	N	LYS	A	70	6.659	14.242	-9.505	56.21	0.00	N
ATOM	278	CA	LYS	A	70	7.921	14.876	-9.867	56.21	0.00	C
ATOM	279	C	LYS	A	70	8.454	14.329	-11.185	56.21	0.00	C
ATOM	280	O	LYS	A	70	9.086	15.049	-11.958	56.21	0.00	O
ATOM	281	N	GLY	A	71	8.194	13.050	-11.437	41.93	0.00	N
ATOM	282	CA	GLY	A	71	8.617	12.413	-12.678	41.93	0.00	C
ATOM	283	C	GLY	A	71	7.932	13.045	-13.883	41.93	0.00	C
ATOM	284	O	GLY	A	71	8.581	13.378	-14.875	41.93	0.00	O
ATOM	285	N	ASN	A	72	6.616	13.206	-13.792	45.44	0.00	N
ATOM	286	CA	ASN	A	72	5.841	13.803	-14.873	45.44	0.00	C
ATOM	287	C	ASN	A	72	4.498	14.316	-14.370	45.44	0.00	C
ATOM	288	O	ASN	A	72	3.549	13.548	-14.213	45.44	0.00	O
ATOM	289	N	PHE	A	73	4.424	15.618	-14.116	59.09	0.00	N
ATOM	290	CA	PHE	A	73	3.200	16.235	-13.619	59.09	0.00	C
ATOM	291	C	PHE	A	73	2.076	16.129	-14.642	59.09	0.00	C
ATOM	292	O	PHE	A	73	2.302	16.261	-15.844	59.09	0.00	O
ATOM	293	N	ASN	A	74	0.861	15.890	-14.156	50.33	0.00	N
ATOM	294	CA	ASN	A	74	-0.310	15.825	-15.021	50.33	0.00	C
ATOM	295	C	ASN	A	74	-0.133	14.773	-16.109	50.33	0.00	C
ATOM	296	O	ASN	A	74	-0.159	15.088	-17.299	50.33	0.00	O
ATOM	297	N	ALA	A	75	0.047	13.524	-15.695	51.14	0.00	N
ATOM	298	CA	ALA	A	75	0.305	12.436	-16.630	51.14	0.00	C
ATOM	299	C	ALA	A	75	-0.112	11.093	-16.043	51.14	0.00	C
ATOM	300	O	ALA	A	75	-0.453	11.000	-14.864	51.14	0.00	O
ATOM	301	N	GLU	A	76	-0.084	10.057	-16.872	46.53	0.00	N
ATOM	302	CA	GLU	A	76	-0.354	8.699	-16.412	46.53	0.00	C
ATOM	303	C	GLU	A	76	0.925	7.876	-16.344	46.53	0.00	C
ATOM	304	O	GLU	A	76	1.557	7.608	-17.366	46.53	0.00	O
ATOM	305	N	THR	A	77	1.302	7.476	-15.135	53.48	0.00	N
ATOM	306	CA	THR	A	77	2.521	6.703	-14.928	53.48	0.00	C
ATOM	307	C	THR	A	77	2.202	5.256	-14.577	53.48	0.00	C
ATOM	308	O	THR	A	77	1.539	4.980	-13.578	53.48	0.00	O
ATOM	309	N	GLU	A	78	2.679	4.332	-15.406	67.11	0.00	N
ATOM	310	CA	GLU	A	78	2.480	2.909	-15.163	67.11	0.00	C
ATOM	311	C	GLU	A	78	3.499	2.371	-14.167	67.11	0.00	C
ATOM	312	O	GLU	A	78	4.707	2.483	-14.379	67.11	0.00	O
ATOM	313	N	VAL	A	79	3.005	1.787	-13.081	53.82	0.00	N
ATOM	314	CA	VAL	A	79	3.872	1.281	-12.023	53.82	0.00	C
ATOM	315	C	VAL	A	79	3.622	-0.199	-11.767	53.82	0.00	C
ATOM	316	O	VAL	A	79	2.483	-0.621	-11.566	53.82	0.00	O
ATOM	317	N	GLU	A	80	4.693	-0.985	-11.777	38.92	0.00	N
ATOM	318	CA	GLU	A	80	4.592	-2.422	-11.550	38.92	0.00	C
ATOM	319	C	GLU	A	80	4.761	-2.760	-10.074	38.92	0.00	C
ATOM	320	O	GLU	A	80	5.670	-2.258	-9.413	38.92	0.00	O
ATOM	321	N	THR	A	81	3.881	-3.613	-9.563	38.45	0.00	N
ATOM	322	CA	THR	A	81	3.927	-4.014	-8.162	38.45	0.00	C
ATOM	323	C	THR	A	81	4.027	-5.528	-8.025	38.45	0.00	C
ATOM	324	O	THR	A	81	3.098	-6.256	-8.374	38.45	0.00	O
ATOM	325	N	LEU	A	82	5.161	-5.997	-7.515	48.62	0.00	N
ATOM	326	CA	LEU	A	82	5.367	-7.422	-7.287	48.62	0.00	C
ATOM	327	C	LEU	A	82	5.455	-7.735	-5.799	48.62	0.00	C
ATOM	328	O	LEU	A	82	6.493	-7.527	-5.171	48.62	0.00	O
ATOM	329	N	ARG	A	83	4.358	-8.235	-5.240	25.29	0.00	N
ATOM	330	CA	ARG	A	83	4.287	-8.516	-3.810	25.29	0.00	C
ATOM	331	C	ARG	A	83	3.930	-9.974	-3.553	25.29	0.00	C
ATOM	332	O	ARG	A	83	2.807	-10.404	-3.817	25.29	0.00	O
ATOM	333	N	GLU	A	84	4.892	-10.732	-3.037	20.97	0.00	N
ATOM	334	CA	GLU	A	84	4.627	-12.081	-2.551	20.97	0.00	C
ATOM	335	C	GLU	A	84	4.144	-12.062	-1.107	20.97	0.00	C
ATOM	336	O	GLU	A	84	4.927	-11.842	-0.183	20.97	0.00	O
ATOM	337	N	ILE	A	85	2.849	-12.293	-0.919	55.92	0.00	N
ATOM	338	CA	ILE	A	85	2.241	-12.213	0.403	55.92	0.00	C
ATOM	339	C	ILE	A	85	1.608	-13.540	0.800	55.92	0.00	C
ATOM	340	O	ILE	A	85	0.741	-14.060	0.099	55.92	0.00	O

ATOM	341	N	ASN	A	86	2.048	-14.086	1.929	48.27	0.00	N
ATOM	342	CA	ASN	A	86	1.504	-15.340	2.437	48.27	0.00	C
ATOM	343	C	ASN	A	86	0.259	-15.097	3.282	48.27	0.00	C
ATOM	344	O	ASN	A	86	0.339	-14.543	4.377	48.27	0.00	O
ATOM	345	N	VAL	A	87	-0.890	-15.518	2.764	38.64	0.00	N
ATOM	346	CA	VAL	A	87	-2.157	-15.335	3.463	38.64	0.00	C
ATOM	347	C	VAL	A	87	-2.795	-16.675	3.806	38.64	0.00	C
ATOM	348	O	VAL	A	87	-3.062	-17.490	2.924	38.64	0.00	O
ATOM	349	N	GLY	A	88	-3.038	-16.895	5.094	47.04	0.00	N
ATOM	350	CA	GLY	A	88	-3.772	-18.072	5.544	47.04	0.00	C
ATOM	351	C	GLY	A	88	-2.921	-19.330	5.425	47.04	0.00	C
ATOM	352	O	GLY	A	88	-3.439	-20.447	5.467	47.04	0.00	O
ATOM	353	N	GLY	A	89	-1.614	-19.143	5.276	51.00	0.00	N
ATOM	354	CA	GLY	A	89	-0.693	-20.262	5.128	51.00	0.00	C
ATOM	355	C	GLY	A	89	-0.430	-20.570	3.660	51.00	0.00	C
ATOM	356	O	GLY	A	89	0.303	-21.503	3.332	51.00	0.00	O
ATOM	357	N	LYS	A	90	-1.034	-19.780	2.778	53.00	0.00	N
ATOM	358	CA	LYS	A	90	-0.860	-19.962	1.342	53.00	0.00	C
ATOM	359	C	LYS	A	90	-0.190	-18.749	0.710	53.00	0.00	C
ATOM	360	O	LYS	A	90	-0.652	-17.619	0.869	53.00	0.00	O
ATOM	361	N	VAL	A	91	0.900	-18.991	-0.009	47.74	0.00	N
ATOM	362	CA	VAL	A	91	1.647	-17.916	-0.653	47.74	0.00	C
ATOM	363	C	VAL	A	91	0.910	-17.392	-1.880	47.74	0.00	C
ATOM	364	O	VAL	A	91	0.607	-18.149	-2.803	47.74	0.00	O
ATOM	365	N	TYR	A	92	0.626	-16.094	-1.884	54.10	0.00	N
ATOM	366	CA	TYR	A	92	0.053	-15.439	-3.053	54.10	0.00	C
ATOM	367	C	TYR	A	92	1.056	-14.491	-3.699	54.10	0.00	C
ATOM	368	O	TYR	A	92	1.328	-13.410	-3.177	54.10	0.00	O
ATOM	369	N	LYS	A	93	1.603	-14.903	-4.838	52.22	0.00	N
ATOM	370	CA	LYS	A	93	2.582	-14.093	-5.554	52.22	0.00	C
ATOM	371	C	LYS	A	93	1.901	-13.024	-6.399	52.22	0.00	C
ATOM	372	O	LYS	A	93	1.759	-13.176	-7.612	52.22	0.00	O
ATOM	373	N	ILE	A	94	1.482	-11.943	-5.750	51.93	0.00	N
ATOM	374	CA	ILE	A	94	0.730	-10.890	-6.422	51.93	0.00	C
ATOM	375	C	ILE	A	94	1.610	-10.122	-7.399	51.93	0.00	C
ATOM	376	O	ILE	A	94	2.356	-9.225	-7.006	51.93	0.00	O
ATOM	377	N	LYS	A	95	1.519	-10.480	-8.676	70.68	0.00	N
ATOM	378	CA	LYS	A	95	2.338	-9.854	-9.708	70.68	0.00	C
ATOM	379	C	LYS	A	95	1.472	-9.172	-10.760	70.68	0.00	C
ATOM	380	O	LYS	A	95	0.869	-9.834	-11.605	70.68	0.00	O
ATOM	381	N	GLY	A	96	1.414	-7.846	-10.703	49.96	0.00	N
ATOM	382	CA	GLY	A	96	0.594	-7.074	-11.630	49.96	0.00	C
ATOM	383	C	GLY	A	96	1.035	-5.618	-11.674	49.96	0.00	C
ATOM	384	O	GLY	A	96	2.092	-5.263	-11.151	49.96	0.00	O
ATOM	385	N	ARG	A	97	0.219	-4.776	-12.300	30.60	0.00	N
ATOM	386	CA	ARG	A	97	0.569	-3.374	-12.498	30.60	0.00	C
ATOM	387	C	ARG	A	97	-0.585	-2.459	-12.116	30.60	0.00	C
ATOM	388	O	ARG	A	97	-1.714	-2.913	-11.928	30.60	0.00	O
ATOM	389	N	ALA	A	98	-0.297	-1.167	-12.001	43.89	0.00	N
ATOM	390	CA	ALA	A	98	-1.333	-0.167	-11.780	43.89	0.00	C
ATOM	391	C	ALA	A	98	-0.963	1.163	-12.424	43.89	0.00	C
ATOM	392	O	ALA	A	98	0.200	1.566	-12.413	43.89	0.00	O
ATOM	393	N	ASP	A	99	-1.958	1.841	-12.984	66.23	0.00	N
ATOM	394	CA	ASP	A	99	-1.735	3.117	-13.653	66.23	0.00	C
ATOM	395	C	ASP	A	99	-2.050	4.286	-12.729	66.23	0.00	C
ATOM	396	O	ASP	A	99	-3.201	4.494	-12.344	66.23	0.00	O
ATOM	397	N	ALA	A	100	-1.020	5.048	-12.377	61.99	0.00	N
ATOM	398	CA	ALA	A	100	-1.193	6.233	-11.545	61.99	0.00	C
ATOM	399	C	ALA	A	100	-1.529	7.455	-12.390	61.99	0.00	C
ATOM	400	O	ALA	A	100	-0.658	8.030	-13.041	61.99	0.00	O
ATOM	401	N	ILE	A	101	-2.799	7.846	-12.374	70.75	0.00	N
ATOM	402	CA	ILE	A	101	-3.265	8.965	-13.186	70.75	0.00	C
ATOM	403	C	ILE	A	101	-3.400	10.233	-12.351	70.75	0.00	C
ATOM	404	O	ILE	A	101	-4.229	10.304	-11.444	70.75	0.00	O
ATOM	405	N	ILE	A	102	-2.580	11.231	-12.663	38.77	0.00	N
ATOM	406	CA	ILE	A	102	-2.625	12.506	-11.959	38.77	0.00	C
ATOM	407	C	ILE	A	102	-3.844	13.321	-12.371	38.77	0.00	C
ATOM	408	O	ILE	A	102	-4.045	13.602	-13.552	38.77	0.00	O
ATOM	409	N	ARG	A	103	-4.655	13.700	-11.388	47.14	0.00	N
ATOM	410	CA	ARG	A	103	-5.842	14.507	-11.644	47.14	0.00	C
ATOM	411	C	ARG	A	103	-5.649	15.939	-11.159	47.14	0.00	C
ATOM	412	O	ARG	A	103	-6.201	16.878	-11.732	47.14	0.00	O
ATOM	413	N	ASN	A	104	-4.860	16.098	-10.101	50.55	0.00	N
ATOM	414	CA	ASN	A	104	-4.531	17.421	-9.584	50.55	0.00	C
ATOM	415	C	ASN	A	104	-3.099	17.469	-9.066	50.55	0.00	C
ATOM	416	O	ASN	A	104	-2.836	17.137	-7.910	50.55	0.00	O
ATOM	417	N	ASP	A	105	-2.177	17.884	-9.928	44.17	0.00	N
ATOM	418	CA	ASP	A	105	-0.765	17.947	-9.567	44.17	0.00	C
ATOM	419	C	ASP	A	105	-0.558	18.763	-8.298	44.17	0.00	C
ATOM	420	O	ASP	A	105	0.086	18.306	-7.352	44.17	0.00	O
ATOM	421	N	ASN	A	106	-1.105	19.973	-8.281	47.42	0.00	N
ATOM	422	CA	ASN	A	106	-0.899	20.893	-7.169	47.42	0.00	C
ATOM	423	C	ASN	A	106	-1.519	20.355	-5.887	47.42	0.00	C
ATOM	424	O	ASN	A	106	-0.984	20.556	-4.796	47.42	0.00	O
ATOM	425	N	GLY	A	107	-2.649	19.670	-6.024	50.23	0.00	N
ATOM	426	CA	GLY	A	107	-3.347	19.104	-4.875	50.23	0.00	C
ATOM	427	C	GLY	A	107	-2.827	17.710	-4.548	50.23	0.00	C
ATOM	428	O	GLY	A	107	-3.282	17.076	-3.596	50.23	0.00	O
ATOM	429	N	LYS	A	108	-1.873	17.238	-5.342	19.82	0.00	N
ATOM	430	CA	LYS	A	108	-1.304	15.910	-5.150	19.82	0.00	C
ATOM	431	C	LYS	A	108	-2.385	14.837	-5.182	19.82	0.00	C
ATOM	432	O	LYS	A	108	-2.338	13.871	-4.421	19.82	0.00	O

ATOM	433	N	SER	A	109	-3.361	15.014	-6.068	46.23	0.00	N
ATOM	434	CA	SER	A	109	-4.454	14.059	-6.205	46.23	0.00	C
ATOM	435	C	SER	A	109	-4.203	13.097	-7.360	46.23	0.00	C
ATOM	436	O	SER	A	109	-4.251	13.487	-8.526	46.23	0.00	O
ATOM	437	N	ILE	A	110	-3.935	11.838	-7.027	49.84	0.00	N
ATOM	438	CA	ILE	A	110	-3.684	10.817	-8.036	49.84	0.00	C
ATOM	439	C	ILE	A	110	-4.602	9.616	-7.845	49.84	0.00	C
ATOM	440	O	ILE	A	110	-4.763	9.118	-6.732	49.84	0.00	O
ATOM	441	N	VAL	A	111	-5.202	9.157	-8.938	62.91	0.00	N
ATOM	442	CA	VAL	A	111	-6.023	7.953	-8.913	62.91	0.00	C
ATOM	443	C	VAL	A	111	-5.250	6.748	-9.433	62.91	0.00	C
ATOM	444	O	VAL	A	111	-4.755	6.755	-10.560	62.91	0.00	O
ATOM	445	N	ILE	A	112	-5.150	5.713	-8.605	58.29	0.00	N
ATOM	446	CA	ILE	A	112	-4.419	4.506	-8.973	58.29	0.00	C
ATOM	447	C	ILE	A	112	-5.357	3.446	-9.538	58.29	0.00	C
ATOM	448	O	ILE	A	112	-6.109	2.811	-8.799	58.29	0.00	O
ATOM	449	N	GLU	A	113	-5.306	3.259	-10.853	83.80	0.00	N
ATOM	450	CA	GLU	A	113	-6.138	2.263	-11.517	83.80	0.00	C
ATOM	451	C	GLU	A	113	-5.455	0.901	-11.539	83.80	0.00	C
ATOM	452	O	GLU	A	113	-4.482	0.696	-12.265	83.80	0.00	O
ATOM	453	N	ILE	A	114	-5.971	-0.027	-10.741	47.53	0.00	N
ATOM	454	CA	ILE	A	114	-5.400	-1.366	-10.653	47.53	0.00	C
ATOM	455	C	ILE	A	114	-5.764	-2.201	-11.874	47.53	0.00	C
ATOM	456	O	ILE	A	114	-6.933	-2.290	-12.251	47.53	0.00	O
ATOM	457	N	LYS	A	115	-4.758	-2.812	-12.488	61.71	0.00	N
ATOM	458	CA	LYS	A	115	-4.971	-3.651	-13.661	61.71	0.00	C
ATOM	459	C	LYS	A	115	-5.818	-4.871	-13.321	61.71	0.00	C
ATOM	460	O	LYS	A	115	-5.614	-5.512	-12.291	61.71	0.00	O
ATOM	461	N	THR	A	116	-6.771	-5.184	-14.191	35.95	0.00	N
ATOM	462	CA	THR	A	116	-7.696	-6.286	-13.951	35.95	0.00	C
ATOM	463	C	THR	A	116	-7.192	-7.576	-14.586	35.95	0.00	C
ATOM	464	O	THR	A	116	-6.188	-7.578	-15.299	35.95	0.00	O
ATOM	465	N	SER	A	117	-7.895	-8.673	-14.323	31.53	0.00	N
ATOM	466	CA	SER	A	117	-7.587	-9.950	-14.956	31.53	0.00	C
ATOM	467	C	SER	A	117	-7.885	-9.910	-16.449	31.53	0.00	C
ATOM	468	O	SER	A	117	-7.430	-10.768	-17.206	31.53	0.00	O
ATOM	469	N	ARG	A	118	-8.653	-8.910	-16.868	55.43	0.00	N
ATOM	470	CA	ARG	A	118	-8.954	-8.715	-18.281	55.43	0.00	C
ATOM	471	C	ARG	A	118	-7.875	-7.881	-18.964	55.43	0.00	C
ATOM	472	O	ARG	A	118	-7.416	-8.217	-20.055	55.43	0.00	O
ATOM	473	N	SER	A	119	-7.476	-6.794	-18.314	29.24	0.00	N
ATOM	474	CA	SER	A	119	-6.436	-5.922	-18.846	29.24	0.00	C
ATOM	475	C	SER	A	119	-5.054	-6.535	-18.657	29.24	0.00	C
ATOM	476	O	SER	A	119	-4.086	-6.115	-19.292	29.24	0.00	O
ATOM	477	N	ASP	A	120	-4.968	-7.529	-17.781	36.70	0.00	N
ATOM	478	CA	ASP	A	120	-3.713	-8.231	-17.539	36.70	0.00	C
ATOM	479	C	ASP	A	120	-3.953	-9.707	-17.251	36.70	0.00	C
ATOM	480	O	ASP	A	120	-4.281	-10.085	-16.126	36.70	0.00	O
ATOM	481	N	LYS	A	121	-3.787	-10.539	-18.274	43.60	0.00	N
ATOM	482	CA	LYS	A	121	-4.044	-11.968	-18.149	43.60	0.00	C
ATOM	483	C	LYS	A	121	-3.019	-12.635	-17.241	43.60	0.00	C
ATOM	484	O	LYS	A	121	-3.226	-13.754	-16.771	43.60	0.00	O
ATOM	485	N	GLY	A	122	-1.913	-11.941	-16.996	49.91	0.00	N
ATOM	486	CA	GLY	A	122	-0.859	-12.459	-16.132	49.91	0.00	C
ATOM	487	C	GLY	A	122	-1.167	-12.189	-14.665	49.91	0.00	C
ATOM	488	O	GLY	A	122	-0.437	-12.628	-13.776	49.91	0.00	O
ATOM	489	N	LEU	A	123	-2.252	-11.463	-14.417	46.62	0.00	N
ATOM	490	CA	LEU	A	123	-2.676	-11.158	-13.056	46.62	0.00	C
ATOM	491	C	LEU	A	123	-3.993	-11.845	-12.722	46.62	0.00	C
ATOM	492	O	LEU	A	123	-5.048	-11.467	-13.233	46.62	0.00	O
ATOM	493	N	PRO	A	124	-3.927	-12.856	-11.862	73.97	0.00	N
ATOM	494	CA	PRO	A	124	-5.121	-13.572	-11.427	73.97	0.00	C
ATOM	495	C	PRO	A	124	-6.149	-12.618	-10.833	73.97	0.00	C
ATOM	496	O	PRO	A	124	-5.795	-11.589	-10.255	73.97	0.00	O
ATOM	497	N	LEU	A	125	-7.423	-12.964	-10.978	23.98	0.00	N
ATOM	498	CA	LEU	A	125	-8.505	-12.146	-10.443	23.98	0.00	C
ATOM	499	C	LEU	A	125	-8.359	-11.955	-8.939	23.98	0.00	C
ATOM	500	O	LEU	A	125	-8.610	-10.869	-8.414	23.98	0.00	O
ATOM	501	N	ILE	A	126	-7.953	-13.015	-8.250	38.08	0.00	N
ATOM	502	CA	ILE	A	126	-7.707	-12.947	-6.814	38.08	0.00	C
ATOM	503	C	ILE	A	126	-6.616	-11.936	-6.488	38.08	0.00	C
ATOM	504	O	ILE	A	126	-6.794	-11.070	-5.632	38.08	0.00	O
ATOM	505	N	HIS	A	127	-5.486	-12.052	-7.177	29.29	0.00	N
ATOM	506	CA	HIS	A	127	-4.350	-11.168	-6.938	29.29	0.00	C
ATOM	507	C	HIS	A	127	-4.694	-9.724	-7.278	29.29	0.00	C
ATOM	508	O	HIS	A	127	-4.193	-8.792	-6.650	29.29	0.00	O
ATOM	509	N	HIS	A	128	-5.554	-9.544	-8.276	39.69	0.00	N
ATOM	510	CA	HIS	A	128	-6.082	-8.226	-8.603	39.69	0.00	C
ATOM	511	C	HIS	A	128	-6.847	-7.631	-7.428	39.69	0.00	C
ATOM	512	O	HIS	A	128	-6.621	-6.482	-7.046	39.69	0.00	O
ATOM	513	N	LYS	A	129	-7.751	-8.419	-6.857	27.03	0.00	N
ATOM	514	CA	LYS	A	129	-8.598	-7.949	-5.766	27.03	0.00	C
ATOM	515	C	LYS	A	129	-7.821	-7.876	-4.458	27.03	0.00	C
ATOM	516	O	LYS	A	129	-8.223	-7.182	-3.525	27.03	0.00	O
ATOM	517	N	MET	A	130	-6.707	-8.598	-4.395	40.21	0.00	N
ATOM	518	CA	MET	A	130	-5.795	-8.502	-3.263	40.21	0.00	C
ATOM	519	C	MET	A	130	-4.957	-7.232	-3.336	40.21	0.00	C
ATOM	520	O	MET	A	130	-4.637	-6.629	-2.311	40.21	0.00	O
ATOM	521	N	GLN	A	131	-4.602	-6.832	-4.552	46.26	0.00	N
ATOM	522	CA	GLN	A	131	-3.996	-5.527	-4.782	46.26	0.00	C
ATOM	523	C	GLN	A	131	-4.937	-4.401	-4.373	46.26	0.00	C
ATOM	524	O	GLN	A	131	-4.509	-3.392	-3.813	46.26	0.00	O

ATOM	525	N	LEU	A	132	-6.224	-4.580	-4.658	48.70	0.00	N
ATOM	526	CA	LEU	A	132	-7.241	-3.626	-4.236	48.70	0.00	C
ATOM	527	C	LEU	A	132	-7.300	-3.518	-2.717	48.70	0.00	C
ATOM	528	O	LEU	A	132	-7.461	-2.428	-2.168	48.70	0.00	O
ATOM	529	N	GLN	A	133	-7.166	-4.656	-2.044	49.66	0.00	N
ATOM	530	CA	GLN	A	133	-7.084	-4.678	-0.588	49.66	0.00	C
ATOM	531	C	GLN	A	133	-5.851	-3.932	-0.094	49.66	0.00	C
ATOM	532	O	GLN	A	133	-5.914	-3.189	0.884	49.66	0.00	O
ATOM	533	N	ILE	A	134	-4.730	-4.137	-0.777	54.32	0.00	N
ATOM	534	CA	ILE	A	134	-3.472	-3.510	-0.389	54.32	0.00	C
ATOM	535	C	ILE	A	134	-3.555	-1.993	-0.501	54.32	0.00	C
ATOM	536	O	ILE	A	134	-3.204	-1.272	0.433	54.32	0.00	O
ATOM	537	N	TYR	A	135	-4.024	-1.513	-1.648	55.17	0.00	N
ATOM	538	CA	TYR	A	135	-3.996	-0.088	-1.952	55.17	0.00	C
ATOM	539	C	TYR	A	135	-5.095	0.656	-1.203	55.17	0.00	C
ATOM	540	O	TYR	A	135	-4.933	1.822	-0.843	55.17	0.00	O
ATOM	541	N	LEU	A	136	-6.212	-0.025	-0.973	51.61	0.00	N
ATOM	542	CA	LEU	A	136	-7.276	0.510	-0.132	51.61	0.00	C
ATOM	543	C	LEU	A	136	-6.812	0.668	1.310	51.61	0.00	C
ATOM	544	O	LEU	A	136	-7.070	1.689	1.948	51.61	0.00	O
ATOM	545	N	TRP	A	137	-6.126	-0.350	1.820	40.90	0.00	N
ATOM	546	CA	TRP	A	137	-5.485	-0.263	3.127	40.90	0.00	C
ATOM	547	C	TRP	A	137	-4.538	0.927	3.198	40.90	0.00	C
ATOM	548	O	TRP	A	137	-4.556	1.691	4.165	40.90	0.00	O
ATOM	549	N	LEU	A	138	-3.709	1.081	2.171	23.53	0.00	N
ATOM	550	CA	LEU	A	138	-2.773	2.196	2.101	23.53	0.00	C
ATOM	551	C	LEU	A	138	-3.509	3.528	2.030	23.53	0.00	C
ATOM	552	O	LEU	A	138	-3.069	4.523	2.606	23.53	0.00	O
ATOM	553	N	PHE	A	139	-4.632	3.541	1.320	31.22	0.00	N
ATOM	554	CA	PHE	A	139	-5.432	4.751	1.173	31.22	0.00	C
ATOM	555	C	PHE	A	139	-5.988	5.210	2.515	31.22	0.00	C
ATOM	556	O	PHE	A	139	-5.977	6.401	2.828	31.22	0.00	O
ATOM	557	N	SER	A	140	-6.475	4.259	3.304	30.40	0.00	N
ATOM	558	CA	SER	A	140	-7.013	4.561	4.625	30.40	0.00	C
ATOM	559	C	SER	A	140	-5.910	4.979	5.588	30.40	0.00	C
ATOM	560	O	SER	A	140	-6.141	5.757	6.513	30.40	0.00	O
ATOM	561	N	ALA	A	141	-4.709	4.457	5.365	38.58	0.00	N
ATOM	562	CA	ALA	A	141	-3.557	4.810	6.185	38.58	0.00	C
ATOM	563	C	ALA	A	141	-2.949	6.134	5.741	38.58	0.00	C
ATOM	564	O	ALA	A	141	-2.288	6.817	6.523	38.58	0.00	O
ATOM	565	N	GLU	A	142	-3.177	6.491	4.482	0.00	0.00	N
ATOM	566	CA	GLU	A	142	-2.580	7.690	3.906	0.00	0.00	C
ATOM	567	C	GLU	A	142	-3.406	8.927	4.233	0.00	0.00	C
ATOM	568	O	GLU	A	142	-2.943	9.827	4.935	0.00	0.00	O
ATOM	569	N	LYS	A	143	-4.630	8.969	3.719	66.08	0.00	N
ATOM	570	CA	LYS	A	143	-5.468	10.157	3.829	66.08	0.00	C
ATOM	571	C	LYS	A	143	-6.839	9.814	4.394	66.08	0.00	C
ATOM	572	O	LYS	A	143	-7.461	10.627	5.077	66.08	0.00	O
ATOM	573	N	GLY	A	144	-7.307	8.604	4.107	60.83	0.00	N
ATOM	574	CA	GLY	A	144	-8.645	8.184	4.507	60.83	0.00	C
ATOM	575	C	GLY	A	144	-9.616	8.251	3.335	60.83	0.00	C
ATOM	576	O	GLY	A	144	-10.832	8.203	3.521	60.83	0.00	O
ATOM	577	N	ILE	A	145	-9.072	8.362	2.128	72.37	0.00	N
ATOM	578	CA	ILE	A	145	-9.889	8.417	0.922	72.37	0.00	C
ATOM	579	C	ILE	A	145	-9.722	7.157	0.084	72.37	0.00	C
ATOM	580	O	ILE	A	145	-8.659	6.917	-0.490	72.37	0.00	O
ATOM	581	N	LEU	A	146	-10.778	6.353	0.016	57.82	0.00	N
ATOM	582	CA	LEU	A	146	-10.707	5.048	-0.631	57.82	0.00	C
ATOM	583	C	LEU	A	146	-11.049	5.147	-2.111	57.82	0.00	C
ATOM	584	O	LEU	A	146	-11.937	5.905	-2.504	57.82	0.00	O
ATOM	585	N	VAL	A	147	-10.340	4.377	-2.930	49.59	0.00	N
ATOM	586	CA	VAL	A	147	-10.628	4.307	-4.357	49.59	0.00	C
ATOM	587	C	VAL	A	147	-10.805	2.864	-4.813	49.59	0.00	C
ATOM	588	O	VAL	A	147	-9.866	2.070	-4.772	49.59	0.00	O
ATOM	589	N	TYR	A	148	-12.016	2.531	-5.248	53.71	0.00	N
ATOM	590	CA	TYR	A	148	-12.314	1.188	-5.730	53.71	0.00	C
ATOM	591	C	TYR	A	148	-12.243	1.119	-7.251	53.71	0.00	C
ATOM	592	O	TYR	A	148	-12.922	1.874	-7.947	53.71	0.00	O
ATOM	593	N	ILE	A	149	-11.418	0.210	-7.758	38.41	0.00	N
ATOM	594	CA	ILE	A	149	-11.216	0.078	-9.196	38.41	0.00	C
ATOM	595	C	ILE	A	149	-11.879	-1.184	-9.732	38.41	0.00	C
ATOM	596	O	ILE	A	149	-11.446	-2.297	-9.438	38.41	0.00	O
ATOM	597	N	THR	A	150	-12.934	-1.003	-10.520	57.09	0.00	N
ATOM	598	CA	THR	A	150	-13.520	-2.101	-11.280	57.09	0.00	C
ATOM	599	C	THR	A	150	-13.205	-1.971	-12.765	57.09	0.00	C
ATOM	600	O	THR	A	150	-12.769	-0.918	-13.227	57.09	0.00	O
ATOM	601	N	PRO	A	151	-13.430	-3.050	-13.508	48.53	0.00	N
ATOM	602	CA	PRO	A	151	-13.038	-3.109	-14.911	48.53	0.00	C
ATOM	603	C	PRO	A	151	-13.660	-1.969	-15.704	48.53	0.00	C
ATOM	604	O	PRO	A	151	-13.090	-1.502	-16.691	48.53	0.00	O
ATOM	605	N	ASP	A	152	-14.834	-1.522	-15.269	47.48	0.00	N
ATOM	606	CA	ASP	A	152	-15.635	-0.585	-16.048	47.48	0.00	C
ATOM	607	C	ASP	A	152	-16.265	0.476	-15.154	47.48	0.00	C
ATOM	608	O	ASP	A	152	-17.316	1.028	-15.476	47.48	0.00	O
ATOM	609	N	ARG	A	153	-15.615	0.756	-14.030	75.55	0.00	N
ATOM	610	CA	ARG	A	153	-16.069	1.806	-13.125	75.55	0.00	C
ATOM	611	C	ARG	A	153	-15.009	2.127	-12.079	75.55	0.00	C
ATOM	612	O	ARG	A	153	-14.325	1.234	-11.578	75.55	0.00	O
ATOM	613	N	ILE	A	154	-14.878	3.408	-11.751	47.28	0.00	N
ATOM	614	CA	ILE	A	154	-14.048	3.831	-10.630	47.28	0.00	C
ATOM	615	C	ILE	A	154	-14.870	4.577	-9.586	47.28	0.00	C
ATOM	616	O	ILE	A	154	-15.444	5.628	-9.870	47.28	0.00	O

ATOM	617	N	ALA	A	155	-14.922	4.027	-8.378	49.85	0.00	N
ATOM	618	CA	ALA	A	155	-15.759	4.579	-7.320	49.85	0.00	C
ATOM	619	C	ALA	A	155	-14.914	5.091	-6.159	49.85	0.00	C
ATOM	620	O	ALA	A	155	-13.872	4.519	-5.839	49.85	0.00	O
ATOM	621	N	GLU	A	156	-15.371	6.170	-5.533	57.54	0.00	N
ATOM	622	CA	GLU	A	156	-14.655	6.763	-4.410	57.54	0.00	C
ATOM	623	C	GLU	A	156	-15.462	6.656	-3.123	57.54	0.00	C
ATOM	624	O	GLU	A	156	-16.678	6.849	-3.123	57.54	0.00	O
ATOM	625	N	TYR	A	157	-14.778	6.347	-2.026	56.62	0.00	N
ATOM	626	CA	TYR	A	157	-15.425	6.247	-0.723	56.62	0.00	C
ATOM	627	C	TYR	A	157	-14.594	6.926	0.358	56.62	0.00	C
ATOM	628	O	TYR	A	157	-13.409	7.200	0.164	56.62	0.00	O
ATOM	629	N	GLU	A	158	-15.222	7.196	1.498	49.97	0.00	N
ATOM	630	CA	GLU	A	158	-14.514	7.739	2.651	49.97	0.00	C
ATOM	631	C	GLU	A	158	-14.480	6.737	3.798	49.97	0.00	C
ATOM	632	O	GLU	A	158	-15.430	5.980	4.003	49.97	0.00	O
ATOM	633	N	ILE	A	159	-13.381	6.735	4.544	52.35	0.00	N
ATOM	634	CA	ILE	A	159	-13.235	5.849	5.693	52.35	0.00	C
ATOM	635	C	ILE	A	159	-12.746	6.611	6.918	52.35	0.00	C
ATOM	636	O	ILE	A	159	-11.827	7.425	6.828	52.35	0.00	O
ATOM	637	N	ASN	A	160	-13.365	6.343	8.061	52.16	0.00	N
ATOM	638	CA	ASN	A	160	-13.024	7.033	9.299	52.16	0.00	C
ATOM	639	C	ASN	A	160	-11.744	6.474	9.907	52.16	0.00	C
ATOM	640	O	ASN	A	160	-11.449	5.286	9.771	52.16	0.00	O
ATOM	641	N	GLU	A	161	-10.987	7.336	10.577	24.33	0.00	N
ATOM	642	CA	GLU	A	161	-9.660	6.974	11.061	24.33	0.00	C
ATOM	643	C	GLU	A	161	-9.720	5.763	11.982	24.33	0.00	C
ATOM	644	O	GLU	A	161	-8.898	4.852	11.881	24.33	0.00	O
ATOM	645	N	PRO	A	162	-10.698	5.759	12.882	48.62	0.00	N
ATOM	646	CA	PRO	A	162	-10.862	4.663	13.830	48.62	0.00	C
ATOM	647	C	PRO	A	162	-10.874	3.316	13.119	48.62	0.00	C
ATOM	648	O	PRO	A	162	-10.347	2.328	13.631	48.62	0.00	O
ATOM	649	N	LEU	A	163	-11.479	3.283	11.937	50.64	0.00	N
ATOM	650	CA	LEU	A	163	-11.574	2.054	11.158	50.64	0.00	C
ATOM	651	C	LEU	A	163	-10.206	1.618	10.648	50.64	0.00	C
ATOM	652	O	LEU	A	163	-9.923	0.425	10.545	50.64	0.00	O
ATOM	653	N	ASP	A	164	-9.361	2.593	10.329	13.03	0.00	N
ATOM	654	CA	ASP	A	164	-7.975	2.319	9.973	13.03	0.00	C
ATOM	655	C	ASP	A	164	-7.171	1.875	11.189	13.03	0.00	C
ATOM	656	O	ASP	A	164	-6.316	0.995	11.092	13.03	0.00	O
ATOM	657	N	GLU	A	165	-7.450	2.491	12.332	52.58	0.00	N
ATOM	658	CA	GLU	A	165	-6.737	2.177	13.565	52.58	0.00	C
ATOM	659	C	GLU	A	165	-6.906	0.711	13.941	52.58	0.00	C
ATOM	660	O	GLU	A	165	-6.002	0.099	14.510	52.58	0.00	O
ATOM	661	N	ALA	A	166	-8.067	0.152	13.618	52.45	0.00	N
ATOM	662	CA	ALA	A	166	-8.308	-1.274	13.801	52.45	0.00	C
ATOM	663	C	ALA	A	166	-7.261	-2.108	13.073	52.45	0.00	C
ATOM	664	O	ALA	A	166	-6.753	-3.093	13.610	52.45	0.00	O
ATOM	665	N	THR	A	167	-6.943	-1.708	11.847	22.42	0.00	N
ATOM	666	CA	THR	A	167	-6.001	-2.452	11.018	22.42	0.00	C
ATOM	667	C	THR	A	167	-4.561	-2.108	11.374	22.42	0.00	C
ATOM	668	O	THR	A	167	-3.650	-2.906	11.156	22.42	0.00	O
ATOM	669	N	ILE	A	168	-4.362	-0.915	11.926	46.72	0.00	N
ATOM	670	CA	ILE	A	168	-3.056	-0.515	12.434	46.72	0.00	C
ATOM	671	C	ILE	A	168	-2.629	-1.390	13.605	46.72	0.00	C
ATOM	672	O	ILE	A	168	-1.479	-1.824	13.681	46.72	0.00	O
ATOM	673	N	VAL	A	169	-3.560	-1.644	14.518	48.67	0.00	N
ATOM	674	CA	VAL	A	169	-3.302	-2.522	15.653	48.67	0.00	C
ATOM	675	C	VAL	A	169	-3.029	-3.949	15.196	48.67	0.00	C
ATOM	676	O	VAL	A	169	-2.095	-4.595	15.670	48.67	0.00	O
ATOM	677	N	ARG	A	170	-3.851	-4.435	14.270	4.85	0.00	N
ATOM	678	CA	ARG	A	170	-3.708	-5.793	13.757	4.85	0.00	C
ATOM	679	C	ARG	A	170	-2.342	-5.998	13.117	4.85	0.00	C
ATOM	680	O	ARG	A	170	-1.647	-6.970	13.413	4.85	0.00	O
ATOM	681	N	LEU	A	171	-1.961	-5.078	12.238	35.06	0.00	N
ATOM	682	CA	LEU	A	171	-0.685	-5.169	11.537	35.06	0.00	C
ATOM	683	C	LEU	A	171	0.484	-5.004	12.498	35.06	0.00	C
ATOM	684	O	LEU	A	171	1.510	-5.672	12.366	35.06	0.00	O
ATOM	685	N	ALA	A	172	0.324	-4.109	13.468	35.22	0.00	N
ATOM	686	CA	ALA	A	172	1.321	-3.930	14.518	35.22	0.00	C
ATOM	687	C	ALA	A	172	1.656	-5.255	15.190	35.22	0.00	C
ATOM	688	O	ALA	A	172	2.826	-5.600	15.354	35.22	0.00	O
ATOM	689	N	GLU	A	173	0.623	-5.995	15.577	57.67	0.00	N
ATOM	690	CA	GLU	A	173	0.805	-7.298	16.205	57.67	0.00	C
ATOM	691	C	GLU	A	173	1.409	-8.300	15.228	57.67	0.00	C
ATOM	692	O	GLU	A	173	2.216	-9.146	15.613	57.67	0.00	O
ATOM	693	N	ASP	A	174	1.013	-8.199	13.965	41.81	0.00	N
ATOM	694	CA	ASP	A	174	1.501	-9.107	12.933	41.81	0.00	C
ATOM	695	C	ASP	A	174	2.994	-8.921	12.697	41.81	0.00	C
ATOM	696	O	ASP	A	174	3.723	-9.886	12.469	41.81	0.00	O
ATOM	697	N	THR	A	175	3.445	-7.671	12.754	37.60	0.00	N
ATOM	698	CA	THR	A	175	4.844	-7.349	12.496	37.60	0.00	C
ATOM	699	C	THR	A	175	5.701	-7.588	13.732	37.60	0.00	C
ATOM	700	O	THR	A	175	6.905	-7.828	13.629	37.60	0.00	O
ATOM	701	N	ILE	A	176	5.075	-7.521	14.902	46.10	0.00	N
ATOM	702	CA	ILE	A	176	5.733	-7.901	16.146	46.10	0.00	C
ATOM	703	C	ILE	A	176	5.959	-9.406	16.212	46.10	0.00	C
ATOM	704	O	ILE	A	176	7.042	-9.865	16.574	46.10	0.00	O
ATOM	705	N	MET	A	177	4.930	-10.170	15.860	53.53	0.00	N
ATOM	706	CA	MET	A	177	5.016	-11.625	15.875	53.53	0.00	C
ATOM	707	C	MET	A	177	5.862	-12.140	14.718	53.53	0.00	C
ATOM	708	O	MET	A	177	6.651	-13.072	14.878	53.53	0.00	O

ATOM	709	N	LEU	A	178	5.695	-11.527	13.551	54.52	0.00	N
ATOM	710	CA	LEU	A	178	6.406	-11.954	12.351	54.52	0.00	C
ATOM	711	C	LEU	A	178	7.177	-10.798	11.728	54.52	0.00	C
ATOM	712	O	LEU	A	178	6.830	-10.318	10.649	54.52	0.00	O
ATOM	713	N	GLN	A	179	8.226	-10.355	12.413	9.65	0.00	N
ATOM	714	CA	GLN	A	179	9.062	-9.268	11.916	9.65	0.00	C
ATOM	715	C	GLN	A	179	9.892	-9.715	10.719	9.65	0.00	C
ATOM	716	O	GLN	A	179	10.498	-8.895	10.031	9.65	0.00	O
ATOM	717	N	ASN	A	180	9.914	-11.021	10.476	36.56	0.00	N
ATOM	718	CA	ASN	A	180	10.691	-11.582	9.376	36.56	0.00	C
ATOM	719	C	ASN	A	180	9.958	-11.429	8.051	36.56	0.00	C
ATOM	720	O	ASN	A	180	10.571	-11.466	6.983	36.56	0.00	O
ATOM	721	N	SER	A	181	8.642	-11.257	8.123	54.59	0.00	N
ATOM	722	CA	SER	A	181	7.818	-11.128	6.927	54.59	0.00	C
ATOM	723	C	SER	A	181	6.642	-10.191	7.166	54.59	0.00	C
ATOM	724	O	SER	A	181	5.487	-10.617	7.165	54.59	0.00	O
ATOM	725	N	PRO	A	182	6.942	-8.914	7.373	58.07	0.00	N
ATOM	726	CA	PRO	A	182	5.913	-7.881	7.411	58.07	0.00	C
ATOM	727	C	PRO	A	182	5.234	-7.730	6.055	58.07	0.00	C
ATOM	728	O	PRO	A	182	5.900	-7.619	5.025	58.07	0.00	O
ATOM	729	N	ARG	A	183	3.905	-7.728	6.061	45.05	0.00	N
ATOM	730	CA	ARG	A	183	3.133	-7.788	4.826	45.05	0.00	C
ATOM	731	C	ARG	A	183	1.671	-7.439	5.073	45.05	0.00	C
ATOM	732	O	ARG	A	183	1.268	-7.175	6.206	45.05	0.00	O
ATOM	733	N	PHE	A	184	0.879	-7.441	4.006	40.86	0.00	N
ATOM	734	CA	PHE	A	184	-0.495	-6.955	4.070	40.86	0.00	C
ATOM	735	C	PHE	A	184	-1.470	-8.096	4.329	40.86	0.00	C
ATOM	736	O	PHE	A	184	-2.602	-8.078	3.847	40.86	0.00	O
ATOM	737	N	ASN	A	185	-1.024	-9.088	5.092	41.19	0.00	N
ATOM	738	CA	ASN	A	185	-1.880	-10.204	5.476	41.19	0.00	C
ATOM	739	C	ASN	A	185	-2.866	-9.793	6.562	41.19	0.00	C
ATOM	740	O	ASN	A	185	-2.470	-9.429	7.670	41.19	0.00	O
ATOM	741	N	TRP	A	186	-4.153	-9.853	6.238	25.29	0.00	N
ATOM	742	CA	TRP	A	186	-5.201	-9.543	7.204	25.29	0.00	C
ATOM	743	C	TRP	A	186	-6.470	-10.334	6.912	25.29	0.00	C
ATOM	744	O	TRP	A	186	-6.625	-10.901	5.831	25.29	0.00	O
ATOM	745	N	GLU	A	187	-7.376	-10.369	7.884	93.17	0.00	N
ATOM	746	CA	GLU	A	187	-8.559	-11.217	7.798	93.17	0.00	C
ATOM	747	C	GLU	A	187	-9.701	-10.498	7.092	93.17	0.00	C
ATOM	748	O	GLU	A	187	-9.628	-9.296	6.836	93.17	0.00	O
ATOM	749	N	CYS	A	188	-10.758	-11.241	6.780	43.08	0.00	N
ATOM	750	CA	CYS	A	188	-11.922	-10.674	6.109	43.08	0.00	C
ATOM	751	C	CYS	A	188	-12.572	-9.587	6.957	43.08	0.00	C
ATOM	752	O	CYS	A	188	-13.252	-8.703	6.436	43.08	0.00	O
ATOM	753	N	LYS	A	189	-12.356	-9.658	8.266	45.12	0.00	N
ATOM	754	CA	LYS	A	189	-12.901	-8.666	9.186	45.12	0.00	C
ATOM	755	C	LYS	A	189	-12.206	-7.321	9.021	45.12	0.00	C
ATOM	756	O	LYS	A	189	-12.710	-6.291	9.470	45.12	0.00	O
ATOM	757	N	TYR	A	190	-11.045	-7.335	8.374	37.47	0.00	N
ATOM	758	CA	TYR	A	190	-10.256	-6.124	8.190	37.47	0.00	C
ATOM	759	C	TYR	A	190	-10.228	-5.702	6.727	37.47	0.00	C
ATOM	760	O	TYR	A	190	-10.025	-4.529	6.412	37.47	0.00	O
ATOM	761	N	CYS	A	191	-10.432	-6.665	5.835	32.14	0.00	N
ATOM	762	CA	CYS	A	191	-10.428	-6.396	4.402	32.14	0.00	C
ATOM	763	C	CYS	A	191	-11.374	-5.253	4.054	32.14	0.00	C
ATOM	764	O	CYS	A	191	-12.595	-5.407	4.106	32.14	0.00	O
ATOM	765	N	ILE	A	192	-10.804	-4.107	3.700	21.11	0.00	N
ATOM	766	CA	ILE	A	192	-11.596	-2.938	3.334	21.11	0.00	C
ATOM	767	C	ILE	A	192	-12.373	-3.181	2.047	21.11	0.00	C
ATOM	768	O	ILE	A	192	-13.530	-2.778	1.922	21.11	0.00	O
ATOM	769	N	PHE	A	193	-11.731	-3.840	1.089	33.12	0.00	N
ATOM	770	CA	PHE	A	193	-12.351	-4.114	-0.202	33.12	0.00	C
ATOM	771	C	PHE	A	193	-13.673	-4.851	-0.033	33.12	0.00	C
ATOM	772	O	PHE	A	193	-14.658	-4.540	-0.704	33.12	0.00	O
ATOM	773	N	SER	A	194	-13.689	-5.829	0.866	47.00	0.00	N
ATOM	774	CA	SER	A	194	-14.839	-6.712	1.017	47.00	0.00	C
ATOM	775	C	SER	A	194	-16.043	-5.958	1.566	47.00	0.00	C
ATOM	776	O	SER	A	194	-17.175	-6.436	1.485	47.00	0.00	O
ATOM	777	N	VAL	A	195	-15.793	-4.780	2.126	41.00	0.00	N
ATOM	778	CA	VAL	A	195	-16.861	-3.944	2.664	41.00	0.00	C
ATOM	779	C	VAL	A	195	-17.840	-3.534	1.572	41.00	0.00	C
ATOM	780	O	VAL	A	195	-19.045	-3.440	1.809	41.00	0.00	O
ATOM	781	N	ILE	A	196	-17.317	-3.288	0.376	42.60	0.00	N
ATOM	782	CA	ILE	A	196	-18.149	-2.922	-0.764	42.60	0.00	C
ATOM	783	C	ILE	A	196	-18.400	-4.119	-1.671	42.60	0.00	C
ATOM	784	O	ILE	A	196	-19.522	-4.343	-2.123	42.60	0.00	O
ATOM	785	N	CYS	A	197	-17.347	-4.886	-1.934	52.08	0.00	N
ATOM	786	CA	CYS	A	197	-17.459	-6.082	-2.761	52.08	0.00	C
ATOM	787	C	CYS	A	197	-16.514	-7.175	-2.279	52.08	0.00	C
ATOM	788	O	CYS	A	197	-15.293	-7.036	-2.365	52.08	0.00	O
ATOM	789	N	PRO	A	198	-17.085	-8.262	-1.772	46.10	0.00	N
ATOM	790	CA	PRO	A	198	-16.295	-9.396	-1.307	46.10	0.00	C
ATOM	791	C	PRO	A	198	-15.353	-9.896	-2.395	46.10	0.00	C
ATOM	792	O	PRO	A	198	-15.726	-9.968	-3.566	46.10	0.00	O
ATOM	793	N	ALA	A	199	-14.132	-10.239	-2.001	29.17	0.00	N
ATOM	794	CA	ALA	A	199	-13.109	-10.655	-2.953	29.17	0.00	C
ATOM	795	C	ALA	A	199	-13.340	-12.087	-3.420	29.17	0.00	C
ATOM	796	O	ALA	A	199	-14.042	-12.857	-2.766	29.17	0.00	O
ATOM	797	N	LYS	A	200	-12.745	-12.437	-4.556	51.72	0.00	N
ATOM	798	CA	LYS	A	200	-12.793	-13.805	-5.056	51.72	0.00	C
ATOM	799	C	LYS	A	200	-12.228	-14.785	-4.035	51.72	0.00	C
ATOM	800	O	LYS	A	200	-12.727	-15.902	-3.891	51.72	0.00	O

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ATOM 801 N LEU A 201 -11.187 -14.360 -3.329 46.35 0.00 N
ATOM 802 CA LEU A 201 -10.613 -15.161 -2.255 46.35 0.00 C
ATOM 803 C LEU A 201 -11.557 -15.242 -1.063 46.35 0.00 C
ATOM 804 O LEU A 201 -11.734 -16.307 -0.470 46.35 0.00 O
ATOM 805 N THR A 202 -12.162 -14.111 -0.715 44.58 0.00 N
ATOM 806 CA THR A 202 -13.093 -14.053 0.406 44.58 0.00 C
ATOM 807 C THR A 202 -14.063 -15.227 0.377 44.58 0.00 C
ATOM 808 O THR A 202 -13.717 -16.302 0.783 44.58 0.00 O
TER 809 THR A 202
ENDMDL
END
REMARK 1 *****
REMARK 1 Start File DECA_vs_NAT_dSi_colored.pdb
REMARK 1 The occupancy record was modified to represent dSi := Si(DEC)-Si(NAT).
REMARK 1 Occ=0.00 means dSi=-1.484741 kB; Occ=99.99 means dSi=1.546813 kB.
MODEL
  0
ATOM 1 N MET A 1 22.940 -3.371 -15.900 48.49 0.00 N
ATOM 2 CA MET A 1 21.679 -3.206 -16.614 48.49 0.00 C
ATOM 3 C MET A 1 20.708 -2.338 -15.824 48.49 0.00 C
ATOM 4 O MET A 1 19.875 -1.639 -16.400 48.49 0.00 O
ATOM 5 N ILE A 2 20.820 -2.387 -14.502 39.73 0.00 N
ATOM 6 CA ILE A 2 19.952 -1.606 -13.629 39.73 0.00 C
ATOM 7 C ILE A 2 20.651 -0.344 -13.141 39.73 0.00 C
ATOM 8 O ILE A 2 21.639 -0.413 -12.409 39.73 0.00 O
ATOM 9 N THR A 3 20.132 0.810 -13.548 54.25 0.00 N
ATOM 10 CA THR A 3 20.740 2.088 -13.201 54.25 0.00 C
ATOM 11 C THR A 3 20.262 2.574 -11.840 54.25 0.00 C
ATOM 12 O THR A 3 19.353 1.993 -11.247 54.25 0.00 O
ATOM 13 N GLU A 4 20.879 3.643 -11.348 44.58 0.00 N
ATOM 14 CA GLU A 4 20.456 4.265 -10.099 44.58 0.00 C
ATOM 15 C GLU A 4 18.987 4.663 -10.151 44.58 0.00 C
ATOM 16 O GLU A 4 18.257 4.506 -9.172 44.58 0.00 O
ATOM 17 N PHE A 5 18.558 5.178 -11.298 52.03 0.00 N
ATOM 18 CA PHE A 5 17.154 5.505 -11.514 52.03 0.00 C
ATOM 19 C PHE A 5 16.266 4.286 -11.301 52.03 0.00 C
ATOM 20 O PHE A 5 15.275 4.348 -10.573 52.03 0.00 O
ATOM 21 N LEU A 6 16.626 3.178 -11.941 45.33 0.00 N
ATOM 22 CA LEU A 6 15.823 1.962 -11.878 45.33 0.00 C
ATOM 23 C LEU A 6 15.843 1.361 -10.478 45.33 0.00 C
ATOM 24 O LEU A 6 14.870 0.746 -10.043 45.33 0.00 O
ATOM 25 N LEU A 7 16.957 1.543 -9.777 34.02 0.00 N
ATOM 26 CA LEU A 7 17.069 1.107 -8.391 34.02 0.00 C
ATOM 27 C LEU A 7 16.083 1.849 -7.497 34.02 0.00 C
ATOM 28 O LEU A 7 15.365 1.237 -6.708 34.02 0.00 O
ATOM 29 N LYS A 8 16.055 3.171 -7.627 38.58 0.00 N
ATOM 30 CA LYS A 8 15.133 3.996 -6.857 38.58 0.00 C
ATOM 31 C LYS A 8 13.688 3.729 -7.256 38.58 0.00 C
ATOM 32 O LYS A 8 12.786 3.760 -6.419 38.58 0.00 O
ATOM 33 N LYS A 9 13.473 3.466 -8.541 37.09 0.00 N
ATOM 34 CA LYS A 9 12.150 3.114 -9.041 37.09 0.00 C
ATOM 35 C LYS A 9 11.619 1.860 -8.359 37.09 0.00 C
ATOM 36 O LYS A 9 10.482 1.831 -7.887 37.09 0.00 O
ATOM 37 N LYS A 10 12.450 0.824 -8.308 45.03 0.00 N
ATOM 38 CA LYS A 10 12.044 -0.456 -7.739 45.03 0.00 C
ATOM 39 C LYS A 10 11.944 -0.377 -6.221 45.03 0.00 C
ATOM 40 O LYS A 10 11.134 -1.071 -5.605 45.03 0.00 O
ATOM 41 N LEU A 11 12.774 0.471 -5.622 27.27 0.00 N
ATOM 42 CA LEU A 11 12.707 0.722 -4.187 27.27 0.00 C
ATOM 43 C LEU A 11 11.367 1.331 -3.796 27.27 0.00 C
ATOM 44 O LEU A 11 10.769 0.946 -2.790 27.27 0.00 O
ATOM 45 N GLU A 12 10.899 2.282 -4.597 25.13 0.00 N
ATOM 46 CA GLU A 12 9.606 2.915 -4.361 25.13 0.00 C
ATOM 47 C GLU A 12 8.463 1.935 -4.590 25.13 0.00 C
ATOM 48 O GLU A 12 7.483 1.925 -3.846 25.13 0.00 O
ATOM 49 N GLU A 13 8.594 1.111 -5.625 28.47 0.00 N
ATOM 50 CA GLU A 13 7.569 0.129 -5.958 28.47 0.00 C
ATOM 51 C GLU A 13 7.478 -0.954 -4.890 28.47 0.00 C
ATOM 52 O GLU A 13 6.392 -1.445 -4.582 28.47 0.00 O
ATOM 53 N HIS A 14 8.624 -1.323 -4.330 20.56 0.00 N
ATOM 54 CA HIS A 14 8.679 -2.368 -3.314 20.56 0.00 C
ATOM 55 C HIS A 14 8.471 -1.793 -1.919 20.56 0.00 C
ATOM 56 O HIS A 14 8.124 -2.515 -0.984 20.56 0.00 O
ATOM 57 N LEU A 15 8.684 -0.489 -1.785 7.47 0.00 N
ATOM 58 CA LEU A 15 8.359 0.218 -0.552 7.47 0.00 C
ATOM 59 C LEU A 15 6.881 0.080 -0.211 7.47 0.00 C
ATOM 60 O LEU A 15 6.514 -0.084 0.952 7.47 0.00 O
ATOM 61 N SER A 16 6.034 0.147 -1.234 18.29 0.00 N
ATOM 62 CA SER A 16 4.600 -0.041 -1.055 18.29 0.00 C
ATOM 63 C SER A 16 4.278 -1.475 -0.654 18.29 0.00 C
ATOM 64 O SER A 16 3.175 -1.769 -0.195 18.29 0.00 O
ATOM 65 N HIS A 17 5.249 -2.366 -0.832 18.83 0.00 N
ATOM 66 CA HIS A 17 5.069 -3.772 -0.492 18.83 0.00 C
ATOM 67 C HIS A 17 5.478 -4.047 0.950 18.83 0.00 C
ATOM 68 O HIS A 17 5.283 -5.148 1.461 18.83 0.00 O
ATOM 69 N VAL A 18 6.045 -3.036 1.601 21.61 0.00 N
ATOM 70 CA VAL A 18 6.578 -3.198 2.949 21.61 0.00 C
ATOM 71 C VAL A 18 5.774 -2.388 3.959 21.61 0.00 C
ATOM 72 O VAL A 18 5.456 -1.223 3.723 21.61 0.00 O
ATOM 73 N LYS A 19 5.450 -3.012 5.085 41.33 0.00 N
ATOM 74 CA LYS A 19 4.620 -2.378 6.102 41.33 0.00 C
ATOM 75 C LYS A 19 5.293 -1.132 6.663 41.33 0.00 C
ATOM 76 O LYS A 19 4.645 -0.108 6.880 41.33 0.00 O

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ATOM	77	N	GLU	A	20	6.599	-1.224	6.895	49.34	0.00	N
ATOM	78	CA	GLU	A	20	7.361	-0.106	7.438	49.34	0.00	C
ATOM	79	C	GLU	A	20	7.122	1.166	6.635	49.34	0.00	C
ATOM	80	O	GLU	A	20	7.280	1.180	5.415	49.34	0.00	O
ATOM	81	N	GLU	A	21	6.739	2.233	7.327	48.16	0.00	N
ATOM	82	CA	GLU	A	21	6.395	3.489	6.672	48.16	0.00	C
ATOM	83	C	GLU	A	21	7.636	4.178	6.116	48.16	0.00	C
ATOM	84	O	GLU	A	21	7.574	4.855	5.090	48.16	0.00	O
ATOM	85	N	ASN	A	22	8.760	4.002	6.801	60.36	0.00	N
ATOM	86	CA	ASN	A	22	10.012	4.627	6.392	60.36	0.00	C
ATOM	87	C	ASN	A	22	10.488	4.083	5.051	60.36	0.00	C
ATOM	88	O	ASN	A	22	10.222	2.931	4.708	60.36	0.00	O
ATOM	89	N	THR	A	23	11.192	4.919	4.295	74.63	0.00	N
ATOM	90	CA	THR	A	23	11.654	4.544	2.964	74.63	0.00	C
ATOM	91	C	THR	A	23	12.794	3.537	3.040	74.63	0.00	C
ATOM	92	O	THR	A	23	13.450	3.404	4.074	74.63	0.00	O
ATOM	93	N	ILE	A	24	13.027	2.829	1.940	61.70	0.00	N
ATOM	94	CA	ILE	A	24	14.033	1.774	1.905	61.70	0.00	C
ATOM	95	C	ILE	A	24	15.075	2.043	0.827	61.70	0.00	C
ATOM	96	O	ILE	A	24	14.772	2.632	-0.210	61.70	0.00	O
ATOM	97	N	TYR	A	25	16.305	1.607	1.079	57.19	0.00	N
ATOM	98	CA	TYR	A	25	17.397	1.805	0.133	57.19	0.00	C
ATOM	99	C	TYR	A	25	18.289	0.573	0.055	57.19	0.00	C
ATOM	100	O	TYR	A	25	18.571	-0.065	1.068	57.19	0.00	O
ATOM	101	N	VAL	A	26	18.729	0.243	-1.154	64.40	0.00	N
ATOM	102	CA	VAL	A	26	19.552	-0.940	-1.374	64.40	0.00	C
ATOM	103	C	VAL	A	26	20.871	-0.842	-0.620	64.40	0.00	C
ATOM	104	O	VAL	A	26	21.181	-1.687	0.221	64.40	0.00	O
ATOM	105	N	THR	A	27	21.645	0.194	-0.922	61.12	0.00	N
ATOM	106	CA	THR	A	27	22.972	0.355	-0.342	61.12	0.00	C
ATOM	107	C	THR	A	27	22.906	0.402	1.179	61.12	0.00	C
ATOM	108	O	THR	A	27	23.690	-0.256	1.864	61.12	0.00	O
ATOM	109	N	ASP	A	28	21.966	1.181	1.703	60.47	0.00	N
ATOM	110	CA	ASP	A	28	21.878	1.417	3.139	60.47	0.00	C
ATOM	111	C	ASP	A	28	21.527	0.137	3.887	60.47	0.00	C
ATOM	112	O	ASP	A	28	22.187	-0.224	4.861	60.47	0.00	O
ATOM	113	N	LEU	A	29	20.486	-0.545	3.425	76.20	0.00	N
ATOM	114	CA	LEU	A	29	19.945	-1.696	4.138	76.20	0.00	C
ATOM	115	C	LEU	A	29	20.842	-2.917	3.973	76.20	0.00	C
ATOM	116	O	LEU	A	29	20.889	-3.786	4.843	76.20	0.00	O
ATOM	117	N	VAL	A	30	21.552	-2.976	2.852	58.21	0.00	N
ATOM	118	CA	VAL	A	30	22.523	-4.037	2.615	58.21	0.00	C
ATOM	119	C	VAL	A	30	23.752	-3.868	3.498	58.21	0.00	C
ATOM	120	O	VAL	A	30	24.287	-4.842	4.028	58.21	0.00	O
ATOM	121	N	ARG	A	31	24.195	-2.625	3.655	99.99	0.00	N
ATOM	122	CA	ARG	A	31	25.314	-2.316	4.538	99.99	0.00	C
ATOM	123	C	ARG	A	31	24.928	-2.495	6.000	99.99	0.00	C
ATOM	124	O	ARG	A	31	25.746	-2.912	6.821	99.99	0.00	O
ATOM	125	N	CYS	A	32	23.679	-2.176	6.321	78.31	0.00	N
ATOM	126	CA	CYS	A	32	23.184	-2.297	7.686	78.31	0.00	C
ATOM	127	C	CYS	A	32	23.117	-3.755	8.122	78.31	0.00	C
ATOM	128	O	CYS	A	32	22.743	-4.629	7.341	78.31	0.00	O
ATOM	129	N	PRO	A	33	23.482	-4.010	9.374	51.38	0.00	N
ATOM	130	CA	PRO	A	33	23.412	-5.355	9.933	51.38	0.00	C
ATOM	131	C	PRO	A	33	22.013	-5.939	9.792	51.38	0.00	C
ATOM	132	O	PRO	A	33	21.835	-7.158	9.799	51.38	0.00	O
ATOM	133	N	ARG	A	34	21.022	-5.064	9.662	62.75	0.00	N
ATOM	134	CA	ARG	A	34	19.647	-5.491	9.435	62.75	0.00	C
ATOM	135	C	ARG	A	34	19.584	-6.641	8.439	62.75	0.00	C
ATOM	136	O	ARG	A	34	18.842	-7.604	8.632	62.75	0.00	O
ATOM	137	N	ARG	A	35	20.370	-6.536	7.372	35.09	0.00	N
ATOM	138	CA	ARG	A	35	20.418	-7.576	6.350	35.09	0.00	C
ATOM	139	C	ARG	A	35	20.877	-8.904	6.937	35.09	0.00	C
ATOM	140	O	ARG	A	35	20.329	-9.958	6.617	35.09	0.00	O
ATOM	141	N	VAL	A	36	21.888	-8.846	7.798	55.22	0.00	N
ATOM	142	CA	VAL	A	36	22.444	-10.048	8.408	55.22	0.00	C
ATOM	143	C	VAL	A	36	21.400	-10.772	9.248	55.22	0.00	C
ATOM	144	O	VAL	A	36	21.215	-11.982	9.119	55.22	0.00	O
ATOM	145	N	ARG	A	37	20.721	-10.024	10.112	66.63	0.00	N
ATOM	146	CA	ARG	A	37	19.624	-10.571	10.901	66.63	0.00	C
ATOM	147	C	ARG	A	37	18.525	-11.128	10.006	66.63	0.00	C
ATOM	148	O	ARG	A	37	18.002	-12.215	10.252	66.63	0.00	O
ATOM	149	N	TYR	A	38	18.179	-10.376	8.966	51.44	0.00	N
ATOM	150	CA	TYR	A	38	17.141	-10.795	8.031	51.44	0.00	C
ATOM	151	C	TYR	A	38	17.469	-12.147	7.412	51.44	0.00	C
ATOM	152	O	TYR	A	38	16.620	-13.037	7.356	51.44	0.00	O
ATOM	153	N	GLU	A	39	18.705	-12.296	6.949	76.94	0.00	N
ATOM	154	CA	GLU	A	39	19.132	-13.520	6.282	76.94	0.00	C
ATOM	155	C	GLU	A	39	19.150	-14.697	7.250	76.94	0.00	C
ATOM	156	O	GLU	A	39	18.839	-15.827	6.873	76.94	0.00	O
ATOM	157	N	SER	A	40	19.515	-14.425	8.498	51.76	0.00	N
ATOM	158	CA	SER	A	40	19.515	-15.447	9.536	51.76	0.00	C
ATOM	159	C	SER	A	40	18.100	-15.923	9.840	51.76	0.00	C
ATOM	160	O	SER	A	40	17.865	-17.114	10.045	51.76	0.00	O
ATOM	161	N	GLU	A	41	17.158	-14.985	9.866	49.17	0.00	N
ATOM	162	CA	GLU	A	41	15.761	-15.310	10.123	49.17	0.00	C
ATOM	163	C	GLU	A	41	15.095	-15.897	8.885	49.17	0.00	C
ATOM	164	O	GLU	A	41	14.186	-16.720	8.989	49.17	0.00	O
ATOM	165	N	TYR	A	42	15.553	-15.469	7.714	54.89	0.00	N
ATOM	166	CA	TYR	A	42	14.967	-15.910	6.454	54.89	0.00	C
ATOM	167	C	TYR	A	42	16.023	-16.508	5.534	54.89	0.00	C
ATOM	168	O	TYR	A	42	16.308	-15.967	4.465	54.89	0.00	O



ATOM	169	N	LYS	A	43	16.600	-17.628	5.955	62.62	0.00	N
ATOM	170	CA	LYS	A	43	17.667	-18.271	5.197	62.62	0.00	C
ATOM	171	C	LYS	A	43	17.150	-18.819	3.873	62.62	0.00	C
ATOM	172	O	LYS	A	43	17.924	-19.064	2.948	62.62	0.00	O
ATOM	173	N	GLU	A	44	15.837	-19.008	3.789	58.52	0.00	N
ATOM	174	CA	GLU	A	44	15.217	-19.551	2.587	58.52	0.00	C
ATOM	175	C	GLU	A	44	15.049	-18.475	1.521	58.52	0.00	C
ATOM	176	O	GLU	A	44	14.828	-18.778	0.348	58.52	0.00	O
ATOM	177	N	LEU	A	45	15.155	-17.217	1.936	58.40	0.00	N
ATOM	178	CA	LEU	A	45	14.954	-16.092	1.028	58.40	0.00	C
ATOM	179	C	LEU	A	45	16.286	-15.524	0.556	58.40	0.00	C
ATOM	180	O	LEU	A	45	17.221	-15.372	1.341	58.40	0.00	O
ATOM	181	N	ALA	A	46	16.365	-15.209	-0.733	72.70	0.00	N
ATOM	182	CA	ALA	A	46	17.584	-14.658	-1.314	72.70	0.00	C
ATOM	183	C	ALA	A	46	17.434	-13.169	-1.596	72.70	0.00	C
ATOM	184	O	ALA	A	46	16.357	-12.701	-1.963	72.70	0.00	O
ATOM	185	N	ILE	A	47	18.524	-12.427	-1.423	57.95	0.00	N
ATOM	186	CA	ILE	A	47	18.524	-10.994	-1.688	57.95	0.00	C
ATOM	187	C	ILE	A	47	19.415	-10.654	-2.877	57.95	0.00	C
ATOM	188	O	ILE	A	47	20.595	-11.004	-2.900	57.95	0.00	O
ATOM	189	N	SER	A	48	18.842	-9.972	-3.862	66.06	0.00	N
ATOM	190	CA	SER	A	48	19.577	-9.602	-5.067	66.06	0.00	C
ATOM	191	C	SER	A	48	20.474	-8.397	-4.817	66.06	0.00	C
ATOM	192	O	SER	A	48	20.471	-7.824	-3.727	66.06	0.00	O
ATOM	193	N	GLN	A	49	21.239	-8.016	-5.833	66.28	0.00	N
ATOM	194	CA	GLN	A	49	22.124	-6.860	-5.735	66.28	0.00	C
ATOM	195	C	GLN	A	49	21.419	-5.587	-6.184	66.28	0.00	C
ATOM	196	O	GLN	A	49	22.009	-4.507	-6.187	66.28	0.00	O
ATOM	197	N	VAL	A	50	20.151	-5.720	-6.562	60.14	0.00	N
ATOM	198	CA	VAL	A	50	19.370	-4.584	-7.034	60.14	0.00	C
ATOM	199	C	VAL	A	50	18.157	-4.342	-6.145	60.14	0.00	C
ATOM	200	O	VAL	A	50	17.531	-3.284	-6.206	60.14	0.00	O
ATOM	201	N	TYR	A	51	17.829	-5.329	-5.318	32.22	0.00	N
ATOM	202	CA	TYR	A	51	16.739	-5.196	-4.359	32.22	0.00	C
ATOM	203	C	TYR	A	51	17.267	-5.124	-2.932	32.22	0.00	C
ATOM	204	O	TYR	A	51	18.234	-5.800	-2.582	32.22	0.00	O
ATOM	205	N	ALA	A	52	16.627	-4.298	-2.111	41.28	0.00	N
ATOM	206	CA	ALA	A	52	16.946	-4.232	-0.689	41.28	0.00	C
ATOM	207	C	ALA	A	52	16.343	-5.410	0.065	41.28	0.00	C
ATOM	208	O	ALA	A	52	15.367	-6.012	-0.382	41.28	0.00	O
ATOM	209	N	PRO	A	53	16.932	-5.736	1.211	48.93	0.00	N
ATOM	210	CA	PRO	A	53	16.404	-6.788	2.071	48.93	0.00	C
ATOM	211	C	PRO	A	53	14.920	-6.582	2.346	48.93	0.00	C
ATOM	212	O	PRO	A	53	14.144	-7.538	2.367	48.93	0.00	O
ATOM	213	N	SER	A	54	14.530	-5.329	2.558	36.30	0.00	N
ATOM	214	CA	SER	A	54	13.134	-4.993	2.804	36.30	0.00	C
ATOM	215	C	SER	A	54	12.296	-5.162	1.543	36.30	0.00	C
ATOM	216	O	SER	A	54	11.159	-5.632	1.599	36.30	0.00	O
ATOM	217	N	ALA	A	55	12.864	-4.774	0.406	32.49	0.00	N
ATOM	218	CA	ALA	A	55	12.202	-4.953	-0.881	32.49	0.00	C
ATOM	219	C	ALA	A	55	11.919	-6.425	-1.155	32.49	0.00	C
ATOM	220	O	ALA	A	55	10.871	-6.775	-1.698	32.49	0.00	O
ATOM	221	N	ILE	A	56	12.860	-7.283	-0.777	36.07	0.00	N
ATOM	222	CA	ILE	A	56	12.678	-8.725	-0.902	36.07	0.00	C
ATOM	223	C	ILE	A	56	11.552	-9.217	-0.002	36.07	0.00	C
ATOM	224	O	ILE	A	56	10.703	-10.002	-0.427	36.07	0.00	O
ATOM	225	N	LEU	A	57	11.549	-8.752	1.242	30.30	0.00	N
ATOM	226	CA	LEU	A	57	10.497	-9.104	2.189	30.30	0.00	C
ATOM	227	C	LEU	A	57	9.118	-8.790	1.623	30.30	0.00	C
ATOM	228	O	LEU	A	57	8.232	-9.643	1.611	30.30	0.00	O
ATOM	229	N	GLY	A	58	8.943	-7.559	1.154	40.09	0.00	N
ATOM	230	CA	GLY	A	58	7.654	-7.110	0.641	40.09	0.00	C
ATOM	231	C	GLY	A	58	7.201	-7.966	-0.535	40.09	0.00	C
ATOM	232	O	GLY	A	58	6.036	-8.356	-0.619	40.09	0.00	O
ATOM	233	N	ASP	A	59	8.128	-8.256	-1.442	43.66	0.00	N
ATOM	234	CA	ASP	A	59	7.826	-9.068	-2.613	43.66	0.00	C
ATOM	235	C	ASP	A	59	7.396	-10.474	-2.212	43.66	0.00	C
ATOM	236	O	ASP	A	59	6.446	-11.026	-2.770	43.66	0.00	O
ATOM	237	N	ILE	A	60	8.100	-11.049	-1.245	47.37	0.00	N
ATOM	238	CA	ILE	A	60	7.814	-12.405	-0.789	47.37	0.00	C
ATOM	239	C	ILE	A	60	6.494	-12.464	-0.031	47.37	0.00	C
ATOM	240	O	ILE	A	60	5.779	-13.464	-0.086	47.37	0.00	O
ATOM	241	N	LEU	A	61	6.177	-11.386	0.679	37.07	0.00	N
ATOM	242	CA	LEU	A	61	4.911	-11.286	1.395	37.07	0.00	C
ATOM	243	C	LEU	A	61	3.731	-11.293	0.431	37.07	0.00	C
ATOM	244	O	LEU	A	61	2.736	-11.982	0.660	37.07	0.00	O
ATOM	245	N	HIS	A	62	3.848	-10.523	-0.645	40.48	0.00	N
ATOM	246	CA	HIS	A	62	2.818	-10.489	-1.677	40.48	0.00	C
ATOM	247	C	HIS	A	62	2.781	-11.794	-2.462	40.48	0.00	C
ATOM	248	O	HIS	A	62	1.729	-12.206	-2.950	40.48	0.00	O
ATOM	249	N	LEU	A	63	3.935	-12.441	-2.580	37.63	0.00	N
ATOM	250	CA	LEU	A	63	4.016	-13.758	-3.201	37.63	0.00	C
ATOM	251	C	LEU	A	63	3.261	-14.799	-2.385	37.63	0.00	C
ATOM	252	O	LEU	A	63	2.559	-15.646	-2.938	37.63	0.00	O
ATOM	253	N	GLY	A	64	3.409	-14.732	-1.066	32.57	0.00	N
ATOM	254	CA	GLY	A	64	2.692	-15.629	-0.168	32.57	0.00	C
ATOM	255	C	GLY	A	64	1.185	-15.430	-0.277	32.57	0.00	C
ATOM	256	O	GLY	A	64	0.430	-16.395	-0.401	32.57	0.00	O
ATOM	257	N	LEU	A	65	0.754	-14.175	-0.229	17.30	0.00	N
ATOM	258	CA	LEU	A	65	-0.661	-13.846	-0.346	17.30	0.00	C
ATOM	259	C	LEU	A	65	-1.201	-14.214	-1.722	17.30	0.00	C
ATOM	260	O	LEU	A	65	-2.347	-14.640	-1.857	17.30	0.00	O

ATOM	261	N	GLU	A	66	-0.367	-14.044	-2.743	52.15	0.00	N
ATOM	262	CA	GLU	A	66	-0.709	-14.480	-4.092	52.15	0.00	C
ATOM	263	C	GLU	A	66	-1.008	-15.973	-4.130	52.15	0.00	C
ATOM	264	O	GLU	A	66	-2.009	-16.402	-4.703	52.15	0.00	O
ATOM	265	N	SER	A	67	-0.132	-16.763	-3.516	48.13	0.00	N
ATOM	266	CA	SER	A	67	-0.279	-18.213	-3.513	48.13	0.00	C
ATOM	267	C	SER	A	67	-1.530	-18.638	-2.755	48.13	0.00	C
ATOM	268	O	SER	A	67	-2.250	-19.541	-3.182	48.13	0.00	O
ATOM	269	N	VAL	A	68	-1.784	-17.983	-1.627	43.23	0.00	N
ATOM	270	CA	VAL	A	68	-2.938	-18.305	-0.797	43.23	0.00	C
ATOM	271	C	VAL	A	68	-4.242	-18.010	-1.527	43.23	0.00	C
ATOM	272	O	VAL	A	68	-5.166	-18.823	-1.522	43.23	0.00	O
ATOM	273	N	LEU	A	69	-4.311	-16.841	-2.155	36.64	0.00	N
ATOM	274	CA	LEU	A	69	-5.508	-16.428	-2.877	36.64	0.00	C
ATOM	275	C	LEU	A	69	-5.759	-17.320	-4.086	36.64	0.00	C
ATOM	276	O	LEU	A	69	-6.878	-17.781	-4.309	36.64	0.00	O
ATOM	277	N	LYS	A	70	-4.708	-17.560	-4.865	44.43	0.00	N
ATOM	278	CA	LYS	A	70	-4.815	-18.385	-6.062	44.43	0.00	C
ATOM	279	C	LYS	A	70	-5.133	-19.833	-5.707	44.43	0.00	C
ATOM	280	O	LYS	A	70	-5.802	-20.535	-6.464	44.43	0.00	O
ATOM	281	N	GLY	A	71	-4.650	-20.273	-4.550	47.19	0.00	N
ATOM	282	CA	GLY	A	71	-4.967	-21.602	-4.043	47.19	0.00	C
ATOM	283	C	GLY	A	71	-6.442	-21.716	-3.682	47.19	0.00	C
ATOM	284	O	GLY	A	71	-7.105	-22.689	-4.042	47.19	0.00	O
ATOM	285	N	ASN	A	72	-6.952	-20.718	-2.970	43.26	0.00	N
ATOM	286	CA	ASN	A	72	-8.352	-20.701	-2.566	43.26	0.00	C
ATOM	287	C	ASN	A	72	-8.819	-19.285	-2.255	43.26	0.00	C
ATOM	288	O	ASN	A	72	-8.639	-18.792	-1.141	43.26	0.00	O
ATOM	289	N	PHE	A	73	-9.419	-18.634	-3.246	39.90	0.00	N
ATOM	290	CA	PHE	A	73	-9.900	-17.267	-3.084	39.90	0.00	C
ATOM	291	C	PHE	A	73	-10.956	-17.180	-1.991	39.90	0.00	C
ATOM	292	O	PHE	A	73	-11.075	-16.162	-1.309	39.90	0.00	O
ATOM	293	N	ASN	A	74	-11.721	-18.254	-1.827	60.33	0.00	N
ATOM	294	CA	ASN	A	74	-12.811	-18.278	-0.860	60.33	0.00	C
ATOM	295	C	ASN	A	74	-12.282	-18.284	0.568	60.33	0.00	C
ATOM	296	O	ASN	A	74	-12.955	-17.829	1.492	60.33	0.00	O
ATOM	297	N	ALA	A	75	-11.070	-18.802	0.743	52.99	0.00	N
ATOM	298	CA	ALA	A	75	-10.442	-18.856	2.057	52.99	0.00	C
ATOM	299	C	ALA	A	75	-10.089	-17.460	2.555	52.99	0.00	C
ATOM	300	O	ALA	A	75	-9.472	-16.671	1.839	52.99	0.00	O
ATOM	301	N	GLU	A	76	-10.485	-17.160	3.788	61.81	0.00	N
ATOM	302	CA	GLU	A	76	-10.231	-15.851	4.377	61.81	0.00	C
ATOM	303	C	GLU	A	76	-8.749	-15.505	4.332	61.81	0.00	C
ATOM	304	O	GLU	A	76	-7.919	-16.212	4.904	61.81	0.00	O
ATOM	305	N	THR	A	77	-8.421	-14.412	3.651	66.18	0.00	N
ATOM	306	CA	THR	A	77	-7.031	-14.016	3.459	66.18	0.00	C
ATOM	307	C	THR	A	77	-6.825	-12.546	3.797	66.18	0.00	C
ATOM	308	O	THR	A	77	-7.405	-11.666	3.162	66.18	0.00	O
ATOM	309	N	GLU	A	78	-5.995	-12.286	4.802	71.90	0.00	N
ATOM	310	CA	GLU	A	78	-5.709	-10.920	5.226	71.90	0.00	C
ATOM	311	C	GLU	A	78	-4.668	-10.271	4.324	71.90	0.00	C
ATOM	312	O	GLU	A	78	-3.494	-10.641	4.346	71.90	0.00	O
ATOM	313	N	VAL	A	79	-5.105	-9.299	3.529	45.89	0.00	N
ATOM	314	CA	VAL	A	79	-4.213	-8.602	2.610	45.89	0.00	C
ATOM	315	C	VAL	A	79	-4.144	-7.114	2.929	45.89	0.00	C
ATOM	316	O	VAL	A	79	-5.166	-6.427	2.949	45.89	0.00	O
ATOM	317	N	GLU	A	80	-2.936	-6.623	3.180	26.43	0.00	N
ATOM	318	CA	GLU	A	80	-2.721	-5.200	3.412	26.43	0.00	C
ATOM	319	C	GLU	A	80	-1.443	-4.719	2.735	26.43	0.00	C
ATOM	320	O	GLU	A	80	-0.424	-5.410	2.747	26.43	0.00	O
ATOM	321	N	THR	A	81	-1.504	-3.531	2.144	34.54	0.00	N
ATOM	322	CA	THR	A	81	-0.337	-2.929	1.512	34.54	0.00	C
ATOM	323	C	THR	A	81	-0.143	-1.488	1.967	34.54	0.00	C
ATOM	324	O	THR	A	81	-1.014	-0.911	2.618	34.54	0.00	O
ATOM	325	N	LEU	A	82	1.003	-0.912	1.622	26.00	0.00	N
ATOM	326	CA	LEU	A	82	1.323	0.454	2.017	26.00	0.00	C
ATOM	327	C	LEU	A	82	1.090	1.428	0.869	26.00	0.00	C
ATOM	328	O	LEU	A	82	1.534	1.196	-0.255	26.00	0.00	O
ATOM	329	N	ARG	A	83	0.391	2.520	1.160	0.00	0.00	N
ATOM	330	CA	ARG	A	83	0.134	3.553	0.164	0.00	0.00	C
ATOM	331	C	ARG	A	83	0.347	4.945	0.745	0.00	0.00	C
ATOM	332	O	ARG	A	83	0.076	5.185	1.922	0.00	0.00	O
ATOM	333	N	GLU	A	84	0.835	5.860	-0.086	16.62	0.00	N
ATOM	334	CA	GLU	A	84	1.049	7.240	0.334	16.62	0.00	C
ATOM	335	C	GLU	A	84	-0.142	8.116	-0.029	16.62	0.00	C
ATOM	336	O	GLU	A	84	-0.407	8.364	-1.206	16.62	0.00	O
ATOM	337	N	ILE	A	85	-0.858	8.585	0.987	49.03	0.00	N
ATOM	338	CA	ILE	A	85	-2.069	9.370	0.776	49.03	0.00	C
ATOM	339	C	ILE	A	85	-2.007	10.693	1.527	49.03	0.00	C
ATOM	340	O	ILE	A	85	-1.666	10.731	2.709	49.03	0.00	O
ATOM	341	N	ASN	A	86	-2.337	11.778	0.833	23.99	0.00	N
ATOM	342	CA	ASN	A	86	-2.324	13.105	1.436	23.99	0.00	C
ATOM	343	C	ASN	A	86	-3.583	13.347	2.259	23.99	0.00	C
ATOM	344	O	ASN	A	86	-4.681	13.458	1.714	23.99	0.00	O
ATOM	345	N	VAL	A	87	-3.416	13.430	3.575	34.12	0.00	N
ATOM	346	CA	VAL	A	87	-4.531	13.709	4.472	34.12	0.00	C
ATOM	347	C	VAL	A	87	-4.343	15.041	5.188	34.12	0.00	C
ATOM	348	O	VAL	A	87	-3.511	15.160	6.088	34.12	0.00	O
ATOM	349	N	GLY	A	88	-5.119	16.040	4.782	45.20	0.00	N
ATOM	350	CA	GLY	A	88	-5.113	17.335	5.452	45.20	0.00	C
ATOM	351	C	GLY	A	88	-3.864	18.132	5.098	45.20	0.00	C
ATOM	352	O	GLY	A	88	-3.455	19.024	5.841	45.20	0.00	O

ATOM	353	N	GLY	A	89	-3.263	17.805	3.959	44.67	0.00	N
ATOM	354	CA	GLY	A	89	-2.093	18.530	3.475	44.67	0.00	C
ATOM	355	C	GLY	A	89	-0.806	17.806	3.845	44.67	0.00	C
ATOM	356	O	GLY	A	89	0.289	18.247	3.494	44.67	0.00	O
ATOM	357	N	LYS	A	90	-0.941	16.691	4.555	48.32	0.00	N
ATOM	358	CA	LYS	A	90	0.211	15.897	4.963	48.32	0.00	C
ATOM	359	C	LYS	A	90	0.109	14.469	4.442	48.32	0.00	C
ATOM	360	O	LYS	A	90	-0.873	13.773	4.698	48.32	0.00	O
ATOM	361	N	VAL	A	91	1.130	14.039	3.708	38.80	0.00	N
ATOM	362	CA	VAL	A	91	1.150	12.698	3.134	38.80	0.00	C
ATOM	363	C	VAL	A	91	1.535	11.658	4.177	38.80	0.00	C
ATOM	364	O	VAL	A	91	2.628	11.706	4.742	38.80	0.00	O
ATOM	365	N	TYR	A	92	0.632	10.717	4.428	52.81	0.00	N
ATOM	366	CA	TYR	A	92	0.885	9.648	5.388	52.81	0.00	C
ATOM	367	C	TYR	A	92	1.035	8.304	4.687	52.81	0.00	C
ATOM	368	O	TYR	A	92	0.397	8.049	3.666	52.81	0.00	O
ATOM	369	N	LYS	A	93	1.885	7.445	5.241	52.93	0.00	N
ATOM	370	CA	LYS	A	93	2.034	6.084	4.742	52.93	0.00	C
ATOM	371	C	LYS	A	93	1.070	5.133	5.439	52.93	0.00	C
ATOM	372	O	LYS	A	93	1.323	4.689	6.560	52.93	0.00	O
ATOM	373	N	ILE	A	94	-0.035	4.824	4.771	51.17	0.00	N
ATOM	374	CA	ILE	A	94	-1.116	4.063	5.387	51.17	0.00	C
ATOM	375	C	ILE	A	94	-1.045	2.592	4.998	51.17	0.00	C
ATOM	376	O	ILE	A	94	-1.013	2.254	3.814	51.17	0.00	O
ATOM	377	N	LYS	A	95	-1.020	1.720	6.000	49.55	0.00	N
ATOM	378	CA	LYS	A	95	-1.006	0.281	5.764	49.55	0.00	C
ATOM	379	C	LYS	A	95	-2.388	-0.325	5.965	49.55	0.00	C
ATOM	380	O	LYS	A	95	-2.947	-0.269	7.061	49.55	0.00	O
ATOM	381	N	GLY	A	96	-2.935	-0.905	4.903	51.60	0.00	N
ATOM	382	CA	GLY	A	96	-4.266	-1.499	4.954	51.60	0.00	C
ATOM	383	C	GLY	A	96	-4.818	-1.737	3.554	51.60	0.00	C
ATOM	384	O	GLY	A	96	-4.064	-1.980	2.612	51.60	0.00	O
ATOM	385	N	ARG	A	97	-6.138	-1.665	3.425	35.35	0.00	N
ATOM	386	CA	ARG	A	97	-6.790	-1.817	2.129	35.35	0.00	C
ATOM	387	C	ARG	A	97	-7.449	-0.515	1.688	35.35	0.00	C
ATOM	388	O	ARG	A	97	-7.552	0.434	2.466	35.35	0.00	O
ATOM	389	N	ALA	A	98	-7.893	-0.477	0.437	48.81	0.00	N
ATOM	390	CA	ALA	A	98	-8.488	0.728	-0.128	48.81	0.00	C
ATOM	391	C	ALA	A	98	-9.726	1.149	0.651	48.81	0.00	C
ATOM	392	O	ALA	A	98	-10.544	0.312	1.033	48.81	0.00	O
ATOM	393	N	ASP	A	99	-9.859	2.450	0.883	46.60	0.00	N
ATOM	394	CA	ASP	A	99	-10.974	2.980	1.659	46.60	0.00	C
ATOM	395	C	ASP	A	99	-11.962	3.722	0.770	46.60	0.00	C
ATOM	396	O	ASP	A	99	-13.164	3.740	1.038	46.60	0.00	O
ATOM	397	N	ALA	A	100	-11.448	4.337	-0.292	51.50	0.00	N
ATOM	398	CA	ALA	A	100	-12.283	5.090	-1.219	51.50	0.00	C
ATOM	399	C	ALA	A	100	-11.772	4.963	-2.648	51.50	0.00	C
ATOM	400	O	ALA	A	100	-10.564	4.892	-2.881	51.50	0.00	O
ATOM	401	N	ILE	A	101	-12.696	4.937	-3.603	67.57	0.00	N
ATOM	402	CA	ILE	A	101	-12.338	4.891	-5.016	67.57	0.00	C
ATOM	403	C	ILE	A	101	-12.902	6.091	-5.766	67.57	0.00	C
ATOM	404	O	ILE	A	101	-14.116	6.276	-5.835	67.57	0.00	O
ATOM	405	N	ILE	A	102	-12.011	6.904	-6.325	54.39	0.00	N
ATOM	406	CA	ILE	A	102	-12.416	8.116	-7.027	54.39	0.00	C
ATOM	407	C	ILE	A	102	-11.694	8.248	-8.360	54.39	0.00	C
ATOM	408	O	ILE	A	102	-10.702	7.563	-8.611	54.39	0.00	O
ATOM	409	N	ARG	A	103	-12.198	9.131	-9.215	48.81	0.00	N
ATOM	410	CA	ARG	A	103	-11.593	9.366	-10.522	48.81	0.00	C
ATOM	411	C	ARG	A	103	-11.341	10.849	-10.754	48.81	0.00	C
ATOM	412	O	ARG	A	103	-12.113	11.697	-10.307	48.81	0.00	O
ATOM	413	N	ASN	A	104	-10.255	11.157	-11.456	49.62	0.00	N
ATOM	414	CA	ASN	A	104	-9.877	12.541	-11.713	49.62	0.00	C
ATOM	415	C	ASN	A	104	-10.598	13.091	-12.938	49.62	0.00	C
ATOM	416	O	ASN	A	104	-11.453	12.423	-13.519	49.62	0.00	O
ATOM	417	N	ASP	A	105	-10.249	14.313	-13.325	50.98	0.00	N
ATOM	418	CA	ASP	A	105	-10.918	14.988	-14.431	50.98	0.00	C
ATOM	419	C	ASP	A	105	-10.667	14.266	-15.748	50.98	0.00	C
ATOM	420	O	ASP	A	105	-11.487	14.325	-16.664	50.98	0.00	O
ATOM	421	N	ASN	A	106	-9.530	13.585	-15.838	41.30	0.00	N
ATOM	422	CA	ASN	A	106	-9.168	12.854	-17.045	41.30	0.00	C
ATOM	423	C	ASN	A	106	-9.917	11.531	-17.134	41.30	0.00	C
ATOM	424	O	ASN	A	106	-9.914	10.874	-18.175	41.30	0.00	O
ATOM	425	N	GLY	A	107	-10.558	11.146	-16.037	55.42	0.00	N
ATOM	426	CA	GLY	A	107	-11.321	9.903	-15.991	55.42	0.00	C
ATOM	427	C	GLY	A	107	-10.455	8.741	-15.523	55.42	0.00	C
ATOM	428	O	GLY	A	107	-10.858	7.582	-15.603	55.42	0.00	O
ATOM	429	N	LYS	A	108	-9.260	9.059	-15.036	47.85	0.00	N
ATOM	430	CA	LYS	A	108	-8.331	8.042	-14.559	47.85	0.00	C
ATOM	431	C	LYS	A	108	-8.643	7.642	-13.123	47.85	0.00	C
ATOM	432	O	LYS	A	108	-9.087	8.465	-12.322	47.85	0.00	O
ATOM	433	N	SER	A	109	-8.407	6.374	-12.801	50.40	0.00	N
ATOM	434	CA	SER	A	109	-8.781	5.830	-11.502	50.40	0.00	C
ATOM	435	C	SER	A	109	-7.831	6.306	-10.411	50.40	0.00	C
ATOM	436	O	SER	A	109	-6.650	6.545	-10.664	50.40	0.00	O
ATOM	437	N	ILE	A	110	-8.353	6.442	-9.196	39.96	0.00	N
ATOM	438	CA	ILE	A	110	-7.536	6.817	-8.049	39.96	0.00	C
ATOM	439	C	ILE	A	110	-7.901	5.996	-6.820	39.96	0.00	C
ATOM	440	O	ILE	A	110	-9.064	5.950	-6.416	39.96	0.00	O
ATOM	441	N	VAL	A	111	-6.903	5.348	-6.230	55.49	0.00	N
ATOM	442	CA	VAL	A	111	-7.106	4.583	-5.005	55.49	0.00	C
ATOM	443	C	VAL	A	111	-6.747	5.406	-3.775	55.49	0.00	C
ATOM	444	O	VAL	A	111	-5.591	5.784	-3.584	55.49	0.00	O

ATOM	445	N	ILE	A	112	-7.746	5.684	-2.943	50.38	0.00	N
ATOM	446	CA	ILE	A	112	-7.534	6.451	-1.722	50.38	0.00	C
ATOM	447	C	ILE	A	112	-7.616	5.559	-0.490	50.38	0.00	C
ATOM	448	O	ILE	A	112	-8.530	4.745	-0.359	50.38	0.00	O
ATOM	449	N	GLU	A	113	-6.654	5.717	0.414	55.15	0.00	N
ATOM	450	CA	GLU	A	113	-6.598	4.905	1.623	55.15	0.00	C
ATOM	451	C	GLU	A	113	-6.339	5.766	2.854	55.15	0.00	C
ATOM	452	O	GLU	A	113	-5.226	6.247	3.063	55.15	0.00	O
ATOM	453	N	ILE	A	114	-7.374	5.956	3.665	49.82	0.00	N
ATOM	454	CA	ILE	A	114	-7.273	6.796	4.852	49.82	0.00	C
ATOM	455	C	ILE	A	114	-7.759	6.058	6.092	49.82	0.00	C
ATOM	456	O	ILE	A	114	-8.959	5.849	6.272	49.82	0.00	O
ATOM	457	N	LYS	A	115	-6.820	5.664	6.946	55.94	0.00	N
ATOM	458	CA	LYS	A	115	-7.152	4.951	8.175	55.94	0.00	C
ATOM	459	C	LYS	A	115	-6.577	5.661	9.395	55.94	0.00	C
ATOM	460	O	LYS	A	115	-5.588	6.385	9.294	55.94	0.00	O
ATOM	461	N	THR	A	116	-7.205	5.447	10.546	47.50	0.00	N
ATOM	462	CA	THR	A	116	-6.766	6.076	11.786	47.50	0.00	C
ATOM	463	C	THR	A	116	-5.408	5.542	12.224	47.50	0.00	C
ATOM	464	O	THR	A	116	-5.008	4.444	11.837	47.50	0.00	O
ATOM	465	N	SER	A	117	-4.703	6.325	13.034	38.09	0.00	N
ATOM	466	CA	SER	A	117	-3.351	5.976	13.451	38.09	0.00	C
ATOM	467	C	SER	A	117	-3.336	4.667	14.231	38.09	0.00	C
ATOM	468	O	SER	A	117	-3.975	4.548	15.277	38.09	0.00	O
ATOM	469	N	ARG	A	118	-2.604	3.685	13.716	50.72	0.00	N
ATOM	470	CA	ARG	A	118	-2.512	2.380	14.358	50.72	0.00	C
ATOM	471	C	ARG	A	118	-1.557	2.416	15.545	50.72	0.00	C
ATOM	472	O	ARG	A	118	-0.610	3.203	15.568	50.72	0.00	O
ATOM	473	N	SER	A	119	-1.808	1.558	16.527	49.06	0.00	N
ATOM	474	CA	SER	A	119	-1.040	1.564	17.765	49.06	0.00	C
ATOM	475	C	SER	A	119	0.425	1.233	17.506	49.06	0.00	C
ATOM	476	O	SER	A	119	0.739	0.318	16.746	49.06	0.00	O
ATOM	477	N	ASP	A	120	1.317	1.983	18.143	54.49	0.00	N
ATOM	478	CA	ASP	A	120	2.749	1.729	18.034	54.49	0.00	C
ATOM	479	C	ASP	A	120	3.481	2.147	19.303	54.49	0.00	C
ATOM	480	O	ASP	A	120	3.459	3.317	19.687	54.49	0.00	O
ATOM	481	N	LYS	A	121	4.128	1.185	19.950	48.74	0.00	N
ATOM	482	CA	LYS	A	121	4.779	1.428	21.233	48.74	0.00	C
ATOM	483	C	LYS	A	121	5.914	2.434	21.092	48.74	0.00	C
ATOM	484	O	LYS	A	121	6.314	3.074	22.065	48.74	0.00	O
ATOM	485	N	GLY	A	122	6.431	2.570	19.876	52.58	0.00	N
ATOM	486	CA	GLY	A	122	7.548	3.470	19.614	52.58	0.00	C
ATOM	487	C	GLY	A	122	7.077	4.914	19.493	52.58	0.00	C
ATOM	488	O	GLY	A	122	7.883	5.844	19.515	52.58	0.00	O
ATOM	489	N	LEU	A	123	5.767	5.094	19.363	73.63	0.00	N
ATOM	490	CA	LEU	A	123	5.190	6.422	19.193	73.63	0.00	C
ATOM	491	C	LEU	A	123	4.311	6.796	20.381	73.63	0.00	C
ATOM	492	O	LEU	A	123	3.643	5.942	20.963	73.63	0.00	O
ATOM	493	N	PRO	A	124	4.317	8.077	20.734	60.33	0.00	N
ATOM	494	CA	PRO	A	124	3.503	8.570	21.838	60.33	0.00	C
ATOM	495	C	PRO	A	124	2.026	8.284	21.604	60.33	0.00	C
ATOM	496	O	PRO	A	124	1.556	8.288	20.466	60.33	0.00	O
ATOM	497	N	LEU	A	125	1.297	8.036	22.687	46.18	0.00	N
ATOM	498	CA	LEU	A	125	-0.146	7.843	22.612	46.18	0.00	C
ATOM	499	C	LEU	A	125	-0.844	9.099	22.107	46.18	0.00	C
ATOM	500	O	LEU	A	125	-1.748	9.027	21.275	46.18	0.00	O
ATOM	501	N	ILE	A	126	-0.420	10.252	22.615	54.49	0.00	N
ATOM	502	CA	ILE	A	126	-0.942	11.532	22.154	54.49	0.00	C
ATOM	503	C	ILE	A	126	-0.661	11.740	20.672	54.49	0.00	C
ATOM	504	O	ILE	A	126	-1.506	12.249	19.935	54.49	0.00	O
ATOM	505	N	HIS	A	127	0.532	11.345	20.241	57.34	0.00	N
ATOM	506	CA	HIS	A	127	0.884	11.375	18.826	57.34	0.00	C
ATOM	507	C	HIS	A	127	-0.125	10.598	17.990	57.34	0.00	C
ATOM	508	O	HIS	A	127	-0.563	11.062	16.939	57.34	0.00	O
ATOM	509	N	HIS	A	128	-0.490	9.411	18.465	49.74	0.00	N
ATOM	510	CA	HIS	A	128	-1.498	8.596	17.799	49.74	0.00	C
ATOM	511	C	HIS	A	128	-2.850	9.299	17.780	49.74	0.00	C
ATOM	512	O	HIS	A	128	-3.566	9.261	16.779	49.74	0.00	O
ATOM	513	N	LYS	A	129	-3.195	9.938	18.893	85.68	0.00	N
ATOM	514	CA	LYS	A	129	-4.480	10.613	19.022	85.68	0.00	C
ATOM	515	C	LYS	A	129	-4.596	11.770	18.039	85.68	0.00	C
ATOM	516	O	LYS	A	129	-5.650	11.987	17.441	85.68	0.00	O
ATOM	517	N	MET	A	130	-3.506	12.513	17.877	84.86	0.00	N
ATOM	518	CA	MET	A	130	-3.494	13.673	16.994	84.86	0.00	C
ATOM	519	C	MET	A	130	-3.703	13.262	15.542	84.86	0.00	C
ATOM	520	O	MET	A	130	-4.511	13.857	14.828	84.86	0.00	O
ATOM	521	N	GLN	A	131	-2.970	12.242	15.109	72.35	0.00	N
ATOM	522	CA	GLN	A	131	-3.103	11.724	13.754	72.35	0.00	C
ATOM	523	C	GLN	A	131	-4.484	11.120	13.528	72.35	0.00	C
ATOM	524	O	GLN	A	131	-5.106	11.339	12.489	72.35	0.00	O
ATOM	525	N	LEU	A	132	-4.957	10.358	14.508	55.73	0.00	N
ATOM	526	CA	LEU	A	132	-6.292	9.773	14.446	55.73	0.00	C
ATOM	527	C	LEU	A	132	-7.343	10.831	14.141	55.73	0.00	C
ATOM	528	O	LEU	A	132	-8.191	10.644	13.268	55.73	0.00	O
ATOM	529	N	GLN	A	133	-7.284	11.944	14.865	90.16	0.00	N
ATOM	530	CA	GLN	A	133	-8.214	13.046	14.653	90.16	0.00	C
ATOM	531	C	GLN	A	133	-8.078	13.619	13.248	90.16	0.00	C
ATOM	532	O	GLN	A	133	-9.075	13.899	12.583	90.16	0.00	O
ATOM	533	N	ILE	A	134	-6.839	13.792	12.803	63.70	0.00	N
ATOM	534	CA	ILE	A	134	-6.570	14.325	11.472	63.70	0.00	C
ATOM	535	C	ILE	A	134	-7.221	13.467	10.394	63.70	0.00	C
ATOM	536	O	ILE	A	134	-7.805	13.988	9.443	63.70	0.00	O

ATOM	537	N	TYR	A	135	-7.119	12.153	10.548	52.62	0.00	N
ATOM	538	CA	TYR	A	135	-7.697	11.221	9.588	52.62	0.00	C
ATOM	539	C	TYR	A	135	-9.216	11.329	9.561	52.62	0.00	C
ATOM	540	O	TYR	A	135	-9.830	11.323	8.493	52.62	0.00	O
ATOM	541	N	LEU	A	136	-9.818	11.429	10.741	79.77	0.00	N
ATOM	542	CA	LEU	A	136	-11.271	11.487	10.858	79.77	0.00	C
ATOM	543	C	LEU	A	136	-11.803	12.851	10.438	79.77	0.00	C
ATOM	544	O	LEU	A	136	-12.953	12.976	10.017	79.77	0.00	O
ATOM	545	N	TRP	A	137	-10.961	13.871	10.557	62.11	0.00	N
ATOM	546	CA	TRP	A	137	-11.339	15.226	10.170	62.11	0.00	C
ATOM	547	C	TRP	A	137	-11.617	15.314	8.676	62.11	0.00	C
ATOM	548	O	TRP	A	137	-12.650	15.834	8.256	62.11	0.00	O
ATOM	549	N	LEU	A	138	-10.687	14.804	7.875	52.60	0.00	N
ATOM	550	CA	LEU	A	138	-10.844	14.799	6.424	52.60	0.00	C
ATOM	551	C	LEU	A	138	-11.970	13.868	5.995	52.60	0.00	C
ATOM	552	O	LEU	A	138	-12.740	14.187	5.088	52.60	0.00	O
ATOM	553	N	PHE	A	139	-12.064	12.718	6.653	56.87	0.00	N
ATOM	554	CA	PHE	A	139	-13.124	11.758	6.370	56.87	0.00	C
ATOM	555	C	PHE	A	139	-14.500	12.384	6.566	56.87	0.00	C
ATOM	556	O	PHE	A	139	-15.374	12.268	5.707	56.87	0.00	O
ATOM	557	N	SER	A	140	-14.686	13.048	7.701	58.25	0.00	N
ATOM	558	CA	SER	A	140	-15.982	13.617	8.054	58.25	0.00	C
ATOM	559	C	SER	A	140	-16.238	14.914	7.298	58.25	0.00	C
ATOM	560	O	SER	A	140	-17.385	15.320	7.112	58.25	0.00	O
ATOM	561	N	ALA	A	141	-15.162	15.563	6.866	50.28	0.00	N
ATOM	562	CA	ALA	A	141	-15.270	16.801	6.103	50.28	0.00	C
ATOM	563	C	ALA	A	141	-16.076	16.594	4.827	50.28	0.00	C
ATOM	564	O	ALA	A	141	-15.862	15.627	4.096	50.28	0.00	O
ATOM	565	N	GLU	A	142	-17.004	17.507	4.565	51.95	0.00	N
ATOM	566	CA	GLU	A	142	-17.817	17.450	3.356	51.95	0.00	C
ATOM	567	C	GLU	A	142	-16.973	17.697	2.112	51.95	0.00	C
ATOM	568	O	GLU	A	142	-17.030	16.933	1.149	51.95	0.00	O
ATOM	569	N	LYS	A	143	-16.189	18.770	2.140	77.71	0.00	N
ATOM	570	CA	LYS	A	143	-15.351	19.135	1.004	77.71	0.00	C
ATOM	571	C	LYS	A	143	-13.873	18.961	1.332	77.71	0.00	C
ATOM	572	O	LYS	A	143	-13.460	19.117	2.481	77.71	0.00	O
ATOM	573	N	GLY	A	144	-13.081	18.636	0.316	59.28	0.00	N
ATOM	574	CA	GLY	A	144	-11.638	18.507	0.481	59.28	0.00	C
ATOM	575	C	GLY	A	144	-10.987	17.958	-0.783	59.28	0.00	C
ATOM	576	O	GLY	A	144	-11.667	17.668	-1.768	59.28	0.00	O
ATOM	577	N	ILE	A	145	-9.666	17.818	-0.748	67.60	0.00	N
ATOM	578	CA	ILE	A	145	-8.921	17.294	-1.887	67.60	0.00	C
ATOM	579	C	ILE	A	145	-8.173	16.020	-1.516	67.60	0.00	C
ATOM	580	O	ILE	A	145	-7.423	15.991	-0.539	67.60	0.00	O
ATOM	581	N	LEU	A	146	-8.381	14.968	-2.301	54.97	0.00	N
ATOM	582	CA	LEU	A	146	-7.711	13.694	-2.067	54.97	0.00	C
ATOM	583	C	LEU	A	146	-6.575	13.478	-3.058	54.97	0.00	C
ATOM	584	O	LEU	A	146	-6.752	13.644	-4.265	54.97	0.00	O
ATOM	585	N	VAL	A	147	-5.409	13.105	-2.543	46.30	0.00	N
ATOM	586	CA	VAL	A	147	-4.211	12.987	-3.365	46.30	0.00	C
ATOM	587	C	VAL	A	147	-3.556	11.623	-3.191	46.30	0.00	C
ATOM	588	O	VAL	A	147	-3.260	11.204	-2.072	46.30	0.00	O
ATOM	589	N	TYR	A	148	-3.333	10.933	-4.304	50.57	0.00	N
ATOM	590	CA	TYR	A	148	-2.767	9.590	-4.273	50.57	0.00	C
ATOM	591	C	TYR	A	148	-1.394	9.554	-4.930	50.57	0.00	C
ATOM	592	O	TYR	A	148	-1.268	9.755	-6.138	50.57	0.00	O
ATOM	593	N	ILE	A	149	-0.366	9.297	-4.129	43.47	0.00	N
ATOM	594	CA	ILE	A	149	1.010	9.343	-4.609	43.47	0.00	C
ATOM	595	C	ILE	A	149	1.490	7.962	-5.039	43.47	0.00	C
ATOM	596	O	ILE	A	149	1.446	7.010	-4.261	43.47	0.00	O
ATOM	597	N	THR	A	150	1.946	7.861	-6.282	49.22	0.00	N
ATOM	598	CA	THR	A	150	2.562	6.635	-6.775	49.22	0.00	C
ATOM	599	C	THR	A	150	4.019	6.863	-7.154	49.22	0.00	C
ATOM	600	O	THR	A	150	4.459	8.002	-7.307	49.22	0.00	O
ATOM	601	N	PRO	A	151	4.763	5.772	-7.306	41.72	0.00	N
ATOM	602	CA	PRO	A	151	6.179	5.853	-7.645	41.72	0.00	C
ATOM	603	C	PRO	A	151	6.395	6.667	-8.914	41.72	0.00	C
ATOM	604	O	PRO	A	151	7.421	7.329	-9.071	41.72	0.00	O
ATOM	605	N	ASP	A	152	5.423	6.616	-9.817	44.73	0.00	N
ATOM	606	CA	ASP	A	152	5.532	7.300	-11.101	44.73	0.00	C
ATOM	607	C	ASP	A	152	4.993	8.721	-11.015	44.73	0.00	C
ATOM	608	O	ASP	A	152	5.706	9.685	-11.297	44.73	0.00	O
ATOM	609	N	ARG	A	153	3.728	8.846	-10.626	52.13	0.00	N
ATOM	610	CA	ARG	A	153	3.024	10.120	-10.706	52.13	0.00	C
ATOM	611	C	ARG	A	153	2.146	10.343	-9.481	52.13	0.00	C
ATOM	612	O	ARG	A	153	1.921	9.425	-8.692	52.13	0.00	O
ATOM	613	N	ILE	A	154	1.652	11.566	-9.327	42.27	0.00	N
ATOM	614	CA	ILE	A	154	0.750	11.897	-8.230	42.27	0.00	C
ATOM	615	C	ILE	A	154	-0.618	12.317	-8.750	42.27	0.00	C
ATOM	616	O	ILE	A	154	-0.743	13.313	-9.462	42.27	0.00	O
ATOM	617	N	ALA	A	155	-1.643	11.554	-8.388	45.33	0.00	N
ATOM	618	CA	ALA	A	155	-3.006	11.847	-8.816	45.33	0.00	C
ATOM	619	C	ALA	A	155	-3.734	12.702	-7.788	45.33	0.00	C
ATOM	620	O	ALA	A	155	-3.501	12.577	-6.585	45.33	0.00	O
ATOM	621	N	GLU	A	156	-4.619	13.570	-8.266	43.25	0.00	N
ATOM	622	CA	GLU	A	156	-5.316	14.511	-7.398	43.25	0.00	C
ATOM	623	C	GLU	A	156	-6.741	14.752	-7.877	43.25	0.00	C
ATOM	624	O	GLU	A	156	-6.981	14.948	-9.069	43.25	0.00	O
ATOM	625	N	TYR	A	157	-7.685	14.734	-6.943	49.46	0.00	N
ATOM	626	CA	TYR	A	157	-9.081	15.016	-7.259	49.46	0.00	C
ATOM	627	C	TYR	A	157	-9.804	15.622	-6.064	49.46	0.00	C
ATOM	628	O	TYR	A	157	-9.726	15.104	-4.949	49.46	0.00	O

ATOM	629	N	GLU	A	158	-10.510	16.723	-6.300	47.41	0.00	N
ATOM	630	CA	GLU	A	158	-11.288	17.375	-5.254	47.41	0.00	C
ATOM	631	C	GLU	A	158	-12.675	16.758	-5.134	47.41	0.00	C
ATOM	632	O	GLU	A	158	-13.337	16.493	-6.136	47.41	0.00	O
ATOM	633	N	ILE	A	159	-13.110	16.531	-3.899	51.83	0.00	N
ATOM	634	CA	ILE	A	159	-14.441	15.993	-3.642	51.83	0.00	C
ATOM	635	C	ILE	A	159	-15.297	16.987	-2.868	51.83	0.00	C
ATOM	636	O	ILE	A	159	-14.781	17.797	-2.097	51.83	0.00	O
ATOM	637	N	ASN	A	160	-16.607	16.922	-3.077	61.93	0.00	N
ATOM	638	CA	ASN	A	160	-17.536	17.825	-2.408	61.93	0.00	C
ATOM	639	C	ASN	A	160	-18.543	17.053	-1.563	61.93	0.00	C
ATOM	640	O	ASN	A	160	-19.567	17.597	-1.151	61.93	0.00	O
ATOM	641	N	GLU	A	161	-18.244	15.783	-1.310	47.82	0.00	N
ATOM	642	CA	GLU	A	161	-19.142	14.924	-0.548	47.82	0.00	C
ATOM	643	C	GLU	A	161	-18.371	13.825	0.173	47.82	0.00	C
ATOM	644	O	GLU	A	161	-17.489	13.191	-0.405	47.82	0.00	O
ATOM	645	N	PRO	A	162	-18.712	13.603	1.438	55.75	0.00	N
ATOM	646	CA	PRO	A	162	-18.103	12.533	2.219	55.75	0.00	C
ATOM	647	C	PRO	A	162	-18.227	11.192	1.507	55.75	0.00	C
ATOM	648	O	PRO	A	162	-19.284	10.858	0.972	55.75	0.00	O
ATOM	649	N	LEU	A	163	-17.140	10.427	1.504	62.98	0.00	N
ATOM	650	CA	LEU	A	163	-17.111	9.141	0.818	62.98	0.00	C
ATOM	651	C	LEU	A	163	-17.369	7.995	1.788	62.98	0.00	C
ATOM	652	O	LEU	A	163	-16.910	8.018	2.930	62.98	0.00	O
ATOM	653	N	ASP	A	164	-18.107	6.991	1.326	51.91	0.00	N
ATOM	654	CA	ASP	A	164	-18.512	5.880	2.180	51.91	0.00	C
ATOM	655	C	ASP	A	164	-17.432	4.809	2.240	51.91	0.00	C
ATOM	656	O	ASP	A	164	-17.272	4.022	1.306	51.91	0.00	O
ATOM	657	N	GLU	A	165	-16.692	4.782	3.343	46.92	0.00	N
ATOM	658	CA	GLU	A	165	-15.608	3.822	3.516	46.92	0.00	C
ATOM	659	C	GLU	A	165	-16.141	2.394	3.565	46.92	0.00	C
ATOM	660	O	GLU	A	165	-15.557	1.484	2.978	46.92	0.00	O
ATOM	661	N	ALA	A	166	-17.251	2.207	4.270	53.66	0.00	N
ATOM	662	CA	ALA	A	166	-17.793	0.874	4.504	53.66	0.00	C
ATOM	663	C	ALA	A	166	-18.098	0.165	3.191	53.66	0.00	C
ATOM	664	O	ALA	A	166	-17.767	-1.008	3.017	53.66	0.00	O
ATOM	665	N	THR	A	167	-18.730	0.883	2.269	56.37	0.00	N
ATOM	666	CA	THR	A	167	-19.137	0.305	0.993	56.37	0.00	C
ATOM	667	C	THR	A	167	-17.929	-0.154	0.187	56.37	0.00	C
ATOM	668	O	THR	A	167	-17.895	-1.277	-0.314	56.37	0.00	O
ATOM	669	N	ILE	A	168	-16.937	0.723	0.065	67.38	0.00	N
ATOM	670	CA	ILE	A	168	-15.758	0.437	-0.742	67.38	0.00	C
ATOM	671	C	ILE	A	168	-14.958	-0.721	-0.158	67.38	0.00	C
ATOM	672	O	ILE	A	168	-14.499	-1.601	-0.887	67.38	0.00	O
ATOM	673	N	VAL	A	169	-14.794	-0.715	1.160	49.35	0.00	N
ATOM	674	CA	VAL	A	169	-14.045	-1.762	1.844	49.35	0.00	C
ATOM	675	C	VAL	A	169	-14.743	-3.110	1.718	49.35	0.00	C
ATOM	676	O	VAL	A	169	-14.100	-4.134	1.488	49.35	0.00	O
ATOM	677	N	ARG	A	170	-16.063	-3.103	1.872	56.01	0.00	N
ATOM	678	CA	ARG	A	170	-16.852	-4.325	1.766	56.01	0.00	C
ATOM	679	C	ARG	A	170	-16.792	-4.899	0.358	56.01	0.00	C
ATOM	680	O	ARG	A	170	-16.685	-6.112	0.175	56.01	0.00	O
ATOM	681	N	LEU	A	171	-16.861	-4.022	-0.637	73.24	0.00	N
ATOM	682	CA	LEU	A	171	-16.757	-4.434	-2.032	73.24	0.00	C
ATOM	683	C	LEU	A	171	-15.373	-4.992	-2.338	73.24	0.00	C
ATOM	684	O	LEU	A	171	-15.235	-5.961	-3.085	73.24	0.00	O
ATOM	685	N	ALA	A	172	-14.350	-4.372	-1.760	49.39	0.00	N
ATOM	686	CA	ALA	A	172	-12.977	-4.828	-1.941	49.39	0.00	C
ATOM	687	C	ALA	A	172	-12.782	-6.228	-1.374	49.39	0.00	C
ATOM	688	O	ALA	A	172	-12.154	-7.080	-2.003	49.39	0.00	O
ATOM	689	N	GLU	A	173	-13.324	-6.460	-0.184	55.60	0.00	N
ATOM	690	CA	GLU	A	173	-13.204	-7.756	0.473	55.60	0.00	C
ATOM	691	C	GLU	A	173	-14.016	-8.820	-0.256	55.60	0.00	C
ATOM	692	O	GLU	A	173	-13.630	-9.988	-0.298	55.60	0.00	O
ATOM	693	N	ASP	A	174	-15.142	-8.408	-0.828	44.03	0.00	N
ATOM	694	CA	ASP	A	174	-15.931	-9.285	-1.685	44.03	0.00	C
ATOM	695	C	ASP	A	174	-15.164	-9.662	-2.944	44.03	0.00	C
ATOM	696	O	ASP	A	174	-15.253	-10.794	-3.423	44.03	0.00	O
ATOM	697	N	THR	A	175	-14.408	-8.708	-3.479	49.85	0.00	N
ATOM	698	CA	THR	A	175	-13.555	-8.963	-4.633	49.85	0.00	C
ATOM	699	C	THR	A	175	-12.449	-9.955	-4.293	49.85	0.00	C
ATOM	700	O	THR	A	175	-12.105	-10.817	-5.101	49.85	0.00	O
ATOM	701	N	ILE	A	176	-11.896	-9.827	-3.091	17.70	0.00	N
ATOM	702	CA	ILE	A	176	-10.885	-10.761	-2.610	17.70	0.00	C
ATOM	703	C	ILE	A	176	-11.434	-12.181	-2.544	17.70	0.00	C
ATOM	704	O	ILE	A	176	-10.776	-13.130	-2.971	17.70	0.00	O
ATOM	705	N	MET	A	177	-12.640	-12.319	-2.008	27.24	0.00	N
ATOM	706	CA	MET	A	177	-13.287	-13.621	-1.902	27.24	0.00	C
ATOM	707	C	MET	A	177	-13.656	-14.166	-3.276	27.24	0.00	C
ATOM	708	O	MET	A	177	-13.596	-15.372	-3.514	27.24	0.00	O
ATOM	709	N	LEU	A	178	-14.039	-13.270	-4.180	45.20	0.00	N
ATOM	710	CA	LEU	A	178	-14.426	-13.659	-5.530	45.20	0.00	C
ATOM	711	C	LEU	A	178	-13.247	-14.252	-6.292	45.20	0.00	C
ATOM	712	O	LEU	A	178	-12.191	-13.630	-6.401	45.20	0.00	O
ATOM	713	N	Gln	A	179	-13.435	-15.458	-6.818	46.50	0.00	N
ATOM	714	CA	Gln	A	179	-12.409	-16.111	-7.622	46.50	0.00	C
ATOM	715	C	Gln	A	179	-12.236	-15.414	-8.965	46.50	0.00	C
ATOM	716	O	Gln	A	179	-11.153	-14.926	-9.287	46.50	0.00	O
ATOM	717	N	ASN	A	180	-13.309	-15.370	-9.747	46.72	0.00	N
ATOM	718	CA	ASN	A	180	-13.291	-14.692	-11.037	46.72	0.00	C
ATOM	719	C	ASN	A	180	-13.454	-13.186	-10.871	46.72	0.00	C
ATOM	720	O	ASN	A	180	-14.491	-12.622	-11.221	46.72	0.00	O

ATOM	721	N	SER	A	181	-12.424	-12.541	-10.334	59.21	0.00	N
ATOM	722	CA	SER	A	181	-12.480	-11.112	-10.049	59.21	0.00	C
ATOM	723	C	SER	A	181	-12.416	-10.292	-11.331	59.21	0.00	C
ATOM	724	O	SER	A	181	-11.943	-10.770	-12.362	59.21	0.00	O
ATOM	725	N	PRO	A	182	-12.896	-9.054	-11.261	65.34	0.00	N
ATOM	726	CA	PRO	A	182	-12.893	-8.165	-12.416	65.34	0.00	C
ATOM	727	C	PRO	A	182	-11.484	-7.981	-12.967	65.34	0.00	C
ATOM	728	O	PRO	A	182	-10.511	-7.956	-12.213	65.34	0.00	O
ATOM	729	N	ARG	A	183	-11.381	-7.853	-14.285	81.95	0.00	N
ATOM	730	CA	ARG	A	183	-10.105	-7.571	-14.930	81.95	0.00	C
ATOM	731	C	ARG	A	183	-9.699	-6.117	-14.734	81.95	0.00	C
ATOM	732	O	ARG	A	183	-10.513	-5.208	-14.892	81.95	0.00	O
ATOM	733	N	PHE	A	184	-8.432	-5.902	-14.390	48.95	0.00	N
ATOM	734	CA	PHE	A	184	-7.909	-4.556	-14.193	48.95	0.00	C
ATOM	735	C	PHE	A	184	-7.386	-3.971	-15.498	48.95	0.00	C
ATOM	736	O	PHE	A	184	-7.085	-4.704	-16.441	48.95	0.00	O
ATOM	737	N	ASN	A	185	-7.280	-2.648	-15.548	52.94	0.00	N
ATOM	738	CA	ASN	A	185	-6.819	-1.961	-16.747	52.94	0.00	C
ATOM	739	C	ASN	A	185	-5.337	-1.619	-16.651	52.94	0.00	C
ATOM	740	O	ASN	A	185	-4.638	-2.094	-15.756	52.94	0.00	O
ATOM	741	N	TRP	A	186	-4.864	-0.791	-17.576	49.34	0.00	N
ATOM	742	CA	TRP	A	186	-3.440	-0.501	-17.689	49.34	0.00	C
ATOM	743	C	TRP	A	186	-2.960	0.365	-16.531	49.34	0.00	C
ATOM	744	O	TRP	A	186	-1.761	0.456	-16.266	49.34	0.00	O
ATOM	745	N	GLU	A	187	-3.903	1.001	-15.844	69.55	0.00	N
ATOM	746	CA	GLU	A	187	-3.586	1.800	-14.667	69.55	0.00	C
ATOM	747	C	GLU	A	187	-3.431	0.923	-13.432	69.55	0.00	C
ATOM	748	O	GLU	A	187	-4.158	1.081	-12.451	69.55	0.00	O
ATOM	749	N	CYS	A	188	-2.478	-0.002	-13.485	43.75	0.00	N
ATOM	750	CA	CYS	A	188	-2.372	-1.052	-12.478	43.75	0.00	C
ATOM	751	C	CYS	A	188	-2.109	-0.466	-11.097	43.75	0.00	C
ATOM	752	O	CYS	A	188	-2.667	-0.925	-10.101	43.75	0.00	O
ATOM	753	N	LYS	A	189	-1.254	0.550	-11.045	20.45	0.00	N
ATOM	754	CA	LYS	A	189	-0.882	1.174	-9.780	20.45	0.00	C
ATOM	755	C	LYS	A	189	-2.008	2.051	-9.247	20.45	0.00	C
ATOM	756	O	LYS	A	189	-1.958	2.517	-8.109	20.45	0.00	O
ATOM	757	N	TYR	A	190	-3.022	2.272	-10.076	14.03	0.00	N
ATOM	758	CA	TYR	A	190	-4.193	3.038	-9.666	14.03	0.00	C
ATOM	759	C	TYR	A	190	-5.434	2.156	-9.607	14.03	0.00	C
ATOM	760	O	TYR	A	190	-6.556	2.653	-9.496	14.03	0.00	O
ATOM	761	N	CYS	A	191	-5.228	0.847	-9.683	35.90	0.00	N
ATOM	762	CA	CYS	A	191	-6.283	-0.114	-9.386	35.90	0.00	C
ATOM	763	C	CYS	A	191	-6.172	-0.629	-7.957	35.90	0.00	C
ATOM	764	O	CYS	A	191	-5.089	-0.638	-7.371	35.90	0.00	O
ATOM	765	N	ILE	A	192	-7.299	-1.060	-7.399	22.39	0.00	N
ATOM	766	CA	ILE	A	192	-7.340	-1.528	-6.019	22.39	0.00	C
ATOM	767	C	ILE	A	192	-6.762	-2.932	-5.895	22.39	0.00	C
ATOM	768	O	ILE	A	192	-6.442	-3.387	-4.798	22.39	0.00	O
ATOM	769	N	PHE	A	193	-6.630	-3.613	-7.028	23.80	0.00	N
ATOM	770	CA	PHE	A	193	-6.141	-4.986	-7.043	23.80	0.00	C
ATOM	771	C	PHE	A	193	-4.703	-5.064	-6.544	23.80	0.00	C
ATOM	772	O	PHE	A	193	-4.303	-6.051	-5.926	23.80	0.00	O
ATOM	773	N	SER	A	194	-3.931	-4.017	-6.813	36.08	0.00	N
ATOM	774	CA	SER	A	194	-2.567	-3.920	-6.307	36.08	0.00	C
ATOM	775	C	SER	A	194	-2.554	-3.744	-4.793	36.08	0.00	C
ATOM	776	O	SER	A	194	-1.510	-3.871	-4.153	36.08	0.00	O
ATOM	777	N	VAL	A	195	-3.720	-3.452	-4.226	33.25	0.00	N
ATOM	778	CA	VAL	A	195	-3.840	-3.233	-2.789	33.25	0.00	C
ATOM	779	C	VAL	A	195	-4.418	-4.457	-2.091	33.25	0.00	C
ATOM	780	O	VAL	A	195	-3.967	-4.838	-1.011	33.25	0.00	O
ATOM	781	N	ILE	A	196	-5.418	-5.069	-2.714	21.76	0.00	N
ATOM	782	CA	ILE	A	196	-6.301	-5.997	-2.018	21.76	0.00	C
ATOM	783	C	ILE	A	196	-6.081	-7.428	-2.492	21.76	0.00	C
ATOM	784	O	ILE	A	196	-6.479	-8.382	-1.823	21.76	0.00	O
ATOM	785	N	CYS	A	197	-5.444	-7.570	-3.650	34.17	0.00	N
ATOM	786	CA	CYS	A	197	-5.334	-8.866	-4.310	34.17	0.00	C
ATOM	787	C	CYS	A	197	-4.040	-8.971	-5.105	34.17	0.00	C
ATOM	788	O	CYS	A	197	-4.016	-8.710	-6.308	34.17	0.00	O
ATOM	789	N	PRO	A	198	-2.964	-9.356	-4.427	39.58	0.00	N
ATOM	790	CA	PRO	A	198	-1.691	-9.611	-5.090	39.58	0.00	C
ATOM	791	C	PRO	A	198	-1.805	-10.768	-6.074	39.58	0.00	C
ATOM	792	O	PRO	A	198	-0.934	-10.961	-6.922	39.58	0.00	O
ATOM	793	N	ALA	A	199	-2.883	-11.535	-5.955	39.90	0.00	N
ATOM	794	CA	ALA	A	199	-3.164	-12.613	-6.896	39.90	0.00	C
ATOM	795	C	ALA	A	199	-3.387	-12.072	-8.303	39.90	0.00	C
ATOM	796	O	ALA	A	199	-3.230	-12.794	-9.287	39.90	0.00	O
ATOM	797	N	LYS	A	200	-3.753	-10.799	-8.390	31.81	0.00	N
ATOM	798	CA	LYS	A	200	-3.956	-10.146	-9.679	31.81	0.00	C
ATOM	799	C	LYS	A	200	-2.850	-9.139	-9.966	31.81	0.00	C
ATOM	800	O	LYS	A	200	-2.251	-9.152	-11.042	31.81	0.00	O
ATOM	801	N	LEU	A	201	-2.583	-8.268	-8.999	38.75	0.00	N
ATOM	802	CA	LEU	A	201	-1.463	-7.340	-9.093	38.75	0.00	C
ATOM	803	C	LEU	A	201	-0.515	-7.499	-7.911	38.75	0.00	C
ATOM	804	O	LEU	A	201	-0.675	-6.843	-6.881	38.75	0.00	O
ATOM	805	N	THR	A	202	0.473	-8.373	-8.066	45.33	0.00	N
ATOM	806	CA	THR	A	202	1.411	-8.668	-6.989	45.33	0.00	C
ATOM	807	C	THR	A	202	2.192	-7.425	-6.584	45.33	0.00	C
ATOM	808	O	THR	A	202	2.133	-7.081	-5.647	45.33	0.00	O
TER	809		THR	A	202						

ENDMDL

END

REMARK 1 \*\*\*\*\*

REMARK 1 Start File DEC5\_vs\_NAT\_dSi\_colored.pdb  
 REMARK 1 The occupancy record was modified to represent dSi := Si(DEC)-Si(NAT).  
 REMARK 1 Occ=0.00 means dSi=-1.555227 kB; Occ=99.99 means dSi=1.594793 kB.

MODEL											
ATOM	1	N	MET	A	1	20.279	17.173	-18.693	45.76	0.00	N
ATOM	2	CA	MET	A	1	19.053	16.399	-18.542	45.76	0.00	C
ATOM	3	C	MET	A	1	19.026	15.664	-17.208	45.76	0.00	C
ATOM	4	O	MET	A	1	19.795	14.728	-16.988	45.76	0.00	O
ATOM	5	N	ILE	A	2	18.137	16.093	-16.319	46.21	0.00	N
ATOM	6	CA	ILE	A	2	18.045	15.512	-14.985	46.21	0.00	C
ATOM	7	C	ILE	A	2	17.569	14.066	-15.046	46.21	0.00	C
ATOM	8	O	ILE	A	2	18.151	13.184	-14.414	46.21	0.00	O
ATOM	9	N	THR	A	3	16.508	13.829	-15.810	45.10	0.00	N
ATOM	10	CA	THR	A	3	15.931	12.495	-15.928	45.10	0.00	C
ATOM	11	C	THR	A	3	16.921	11.521	-16.552	45.10	0.00	C
ATOM	12	O	THR	A	3	17.057	10.384	-16.100	45.10	0.00	O
ATOM	13	N	GLU	A	4	17.614	11.972	-17.592	48.31	0.00	N
ATOM	14	CA	GLU	A	4	18.623	11.156	-18.256	48.31	0.00	C
ATOM	15	C	GLU	A	4	19.739	10.771	-17.293	48.31	0.00	C
ATOM	16	O	GLU	A	4	20.094	9.598	-17.176	48.31	0.00	O
ATOM	17	N	PHE	A	5	20.289	11.766	-16.604	48.37	0.00	N
ATOM	18	CA	PHE	A	5	21.387	11.537	-15.672	48.37	0.00	C
ATOM	19	C	PHE	A	5	20.934	10.700	-14.483	48.37	0.00	C
ATOM	20	O	PHE	A	5	21.720	9.950	-13.905	48.37	0.00	O
ATOM	21	N	LEU	A	6	19.662	10.834	-14.122	36.80	0.00	N
ATOM	22	CA	LEU	A	6	19.076	10.018	-13.065	36.80	0.00	C
ATOM	23	C	LEU	A	6	19.100	8.540	-13.433	36.80	0.00	C
ATOM	24	O	LEU	A	6	19.575	7.706	-12.661	36.80	0.00	O
ATOM	25	N	LEU	A	7	18.586	8.222	-14.616	54.72	0.00	N
ATOM	26	CA	LEU	A	7	18.351	6.835	-15.001	54.72	0.00	C
ATOM	27	C	LEU	A	7	19.604	6.209	-15.601	54.72	0.00	C
ATOM	28	O	LEU	A	7	19.700	4.989	-15.730	54.72	0.00	O
ATOM	29	N	LYS	A	8	20.564	7.053	-15.966	51.73	0.00	N
ATOM	30	CA	LYS	A	8	21.818	6.585	-16.543	51.73	0.00	C
ATOM	31	C	LYS	A	8	22.928	6.555	-15.500	51.73	0.00	C
ATOM	32	O	LYS	A	8	23.607	5.543	-15.332	51.73	0.00	O
ATOM	33	N	LYS	A	9	23.107	7.672	-14.803	52.97	0.00	N
ATOM	34	CA	LYS	A	9	24.252	7.846	-13.917	52.97	0.00	C
ATOM	35	C	LYS	A	9	23.899	7.474	-12.482	52.97	0.00	C
ATOM	36	O	LYS	A	9	24.508	6.581	-11.895	52.97	0.00	O
ATOM	37	N	LYS	A	10	22.911	8.165	-11.923	52.55	0.00	N
ATOM	38	CA	LYS	A	10	22.539	7.975	-10.526	52.55	0.00	C
ATOM	39	C	LYS	A	10	22.049	6.555	-10.274	52.55	0.00	C
ATOM	40	O	LYS	A	10	22.421	5.927	-9.283	52.55	0.00	O
ATOM	41	N	LEU	A	11	21.213	6.054	-11.177	38.88	0.00	N
ATOM	42	CA	LEU	A	11	20.689	4.698	-11.066	38.88	0.00	C
ATOM	43	C	LEU	A	11	21.810	3.690	-10.846	38.88	0.00	C
ATOM	44	O	LEU	A	11	21.823	2.970	-9.848	38.88	0.00	O
ATOM	45	N	GLU	A	12	22.749	3.644	-11.784	45.02	0.00	N
ATOM	46	CA	GLU	A	12	23.853	2.693	-11.717	45.02	0.00	C
ATOM	47	C	GLU	A	12	24.729	2.952	-10.499	45.02	0.00	C
ATOM	48	O	GLU	A	12	25.220	2.018	-9.866	45.02	0.00	O
ATOM	49	N	GLU	A	13	24.924	4.226	-10.177	49.97	0.00	N
ATOM	50	CA	GLU	A	13	25.705	4.609	-9.006	49.97	0.00	C
ATOM	51	C	GLU	A	13	25.135	3.991	-7.736	49.97	0.00	C
ATOM	52	O	GLU	A	13	25.878	3.535	-6.869	49.97	0.00	O
ATOM	53	N	HIS	A	14	23.809	3.980	-7.633	31.53	0.00	N
ATOM	54	CA	HIS	A	14	23.139	3.523	-6.422	31.53	0.00	C
ATOM	55	C	HIS	A	14	22.904	2.018	-6.458	31.53	0.00	C
ATOM	56	O	HIS	A	14	22.830	1.367	-5.416	31.53	0.00	O
ATOM	57	N	LEU	A	15	22.788	1.470	-7.662	13.88	0.00	N
ATOM	58	CA	LEU	A	15	22.660	0.029	-7.840	13.88	0.00	C
ATOM	59	C	LEU	A	15	23.854	-0.707	-7.243	13.88	0.00	C
ATOM	60	O	LEU	A	15	23.712	-1.809	-6.713	13.88	0.00	O
ATOM	61	N	SER	A	16	25.027	-0.091	-7.332	30.48	0.00	N
ATOM	62	CA	SER	A	16	26.241	-0.671	-6.771	30.48	0.00	C
ATOM	63	C	SER	A	16	26.212	-0.642	-5.248	30.48	0.00	C
ATOM	64	O	SER	A	16	27.006	-1.315	-4.590	30.48	0.00	O
ATOM	65	N	HIS	A	17	25.294	0.141	-4.694	47.88	0.00	N
ATOM	66	CA	HIS	A	17	25.177	0.279	-3.247	47.88	0.00	C
ATOM	67	C	HIS	A	17	23.848	-0.273	-2.746	47.88	0.00	C
ATOM	68	O	HIS	A	17	23.628	-0.388	-1.542	47.88	0.00	O
ATOM	69	N	VAL	A	18	22.967	-0.615	-3.680	27.03	0.00	N
ATOM	70	CA	VAL	A	18	21.659	-1.161	-3.336	27.03	0.00	C
ATOM	71	C	VAL	A	18	21.486	-2.568	-3.892	27.03	0.00	C
ATOM	72	O	VAL	A	18	21.189	-3.507	-3.154	27.03	0.00	O
ATOM	73	N	LYS	A	19	21.673	-2.708	-5.201	25.84	0.00	N
ATOM	74	CA	LYS	A	19	21.480	-3.989	-5.870	25.84	0.00	C
ATOM	75	C	LYS	A	19	22.601	-4.963	-5.531	25.84	0.00	C
ATOM	76	O	LYS	A	19	22.350	-6.105	-5.147	25.84	0.00	O
ATOM	77	N	GLU	A	20	23.840	-4.504	-5.675	52.41	0.00	N
ATOM	78	CA	GLU	A	20	25.003	-5.321	-5.351	52.41	0.00	C
ATOM	79	C	GLU	A	20	25.103	-5.566	-3.850	52.41	0.00	C
ATOM	80	O	GLU	A	20	25.664	-6.571	-3.413	52.41	0.00	O
ATOM	81	N	GLU	A	21	24.555	-4.644	-3.067	47.67	0.00	N
ATOM	82	CA	GLU	A	21	24.571	-4.764	-1.615	47.67	0.00	C
ATOM	83	C	GLU	A	21	23.285	-5.397	-1.099	47.67	0.00	C
ATOM	84	O	GLU	A	21	22.457	-5.866	-1.879	47.67	0.00	O
ATOM	85	N	ASN	A	22	23.123	-5.406	0.220	55.84	0.00	N
ATOM	86	CA	ASN	A	22	21.929	-5.965	0.841	55.84	0.00	C
ATOM	87	C	ASN	A	22	20.706	-5.100	0.560	55.84	0.00	C
ATOM	88	O	ASN	A	22	20.315	-4.274	1.385	55.84	0.00	O



ATOM	89	N	THR	A	23	20.106	-5.296	-0.609	52.17	0.00	N
ATOM	90	CA	THR	A	23	18.926	-4.534	-1.001	52.17	0.00	C
ATOM	91	C	THR	A	23	17.928	-4.436	0.144	52.17	0.00	C
ATOM	92	O	THR	A	23	17.601	-5.437	0.784	52.17	0.00	O
ATOM	93	N	ILE	A	24	17.444	-3.225	0.399	52.05	0.00	N
ATOM	94	CA	ILE	A	24	16.486	-2.993	1.473	52.05	0.00	C
ATOM	95	C	ILE	A	24	15.077	-3.383	1.047	52.05	0.00	C
ATOM	96	O	ILE	A	24	14.474	-2.733	0.191	52.05	0.00	O
ATOM	97	N	TYR	A	25	14.555	-4.446	1.649	49.96	0.00	N
ATOM	98	CA	TYR	A	25	13.183	-4.872	1.398	49.96	0.00	C
ATOM	99	C	TYR	A	25	12.277	-4.531	2.574	49.96	0.00	C
ATOM	100	O	TYR	A	25	12.745	-4.092	3.624	49.96	0.00	O
ATOM	101	N	VAL	A	26	10.977	-4.736	2.391	44.54	0.00	N
ATOM	102	CA	VAL	A	26	10.004	-4.469	3.443	44.54	0.00	C
ATOM	103	C	VAL	A	26	10.394	-5.163	4.742	44.54	0.00	C
ATOM	104	O	VAL	A	26	10.461	-4.533	5.798	44.54	0.00	O
ATOM	105	N	THR	A	27	10.651	-6.464	4.658	50.31	0.00	N
ATOM	106	CA	THR	A	27	11.001	-7.253	5.833	50.31	0.00	C
ATOM	107	C	THR	A	27	12.260	-6.713	6.503	50.31	0.00	C
ATOM	108	O	THR	A	27	12.347	-6.660	7.729	50.31	0.00	O
ATOM	109	N	ASP	A	28	13.232	-6.314	5.690	54.19	0.00	N
ATOM	110	CA	ASP	A	28	14.472	-5.744	6.202	54.19	0.00	C
ATOM	111	C	ASP	A	28	14.197	-4.556	7.115	54.19	0.00	C
ATOM	112	O	ASP	A	28	14.839	-4.398	8.153	54.19	0.00	O
ATOM	113	N	LEU	A	29	13.239	-3.723	6.721	58.99	0.00	N
ATOM	114	CA	LEU	A	29	12.855	-2.566	7.521	58.99	0.00	C
ATOM	115	C	LEU	A	29	12.069	-2.987	8.756	58.99	0.00	C
ATOM	116	O	LEU	A	29	12.303	-2.483	9.855	58.99	0.00	O
ATOM	117	N	VAL	A	30	11.135	-3.914	8.570	54.59	0.00	N
ATOM	118	CA	VAL	A	30	10.297	-4.387	9.665	54.59	0.00	C
ATOM	119	C	VAL	A	30	11.142	-4.871	10.837	54.59	0.00	C
ATOM	120	O	VAL	A	30	10.808	-4.629	11.997	54.59	0.00	O
ATOM	121	N	ARG	A	31	12.237	-5.556	10.527	99.99	0.00	N
ATOM	122	CA	ARG	A	31	13.064	-6.184	11.551	99.99	0.00	C
ATOM	123	C	ARG	A	31	13.808	-5.141	12.374	99.99	0.00	C
ATOM	124	O	ARG	A	31	14.328	-5.441	13.450	99.99	0.00	O
ATOM	125	N	CYS	A	32	13.856	-3.916	11.864	79.02	0.00	N
ATOM	126	CA	CYS	A	32	14.565	-2.833	12.536	79.02	0.00	C
ATOM	127	C	CYS	A	32	13.592	-1.801	13.093	79.02	0.00	C
ATOM	128	O	CYS	A	32	12.429	-1.752	12.695	79.02	0.00	O
ATOM	129	N	PRO	A	33	14.077	-0.978	14.017	65.88	0.00	N
ATOM	130	CA	PRO	A	33	13.279	0.112	14.565	65.88	0.00	C
ATOM	131	C	PRO	A	33	13.074	1.216	13.537	65.88	0.00	C
ATOM	132	O	PRO	A	33	13.844	1.343	12.585	65.88	0.00	O
ATOM	133	N	ARG	A	34	12.030	2.015	13.734	59.12	0.00	N
ATOM	134	CA	ARG	A	34	11.645	3.027	12.757	59.12	0.00	C
ATOM	135	C	ARG	A	34	12.767	4.035	12.536	59.12	0.00	C
ATOM	136	O	ARG	A	34	12.922	4.574	11.441	59.12	0.00	O
ATOM	137	N	ARG	A	35	13.546	4.284	13.584	93.15	0.00	N
ATOM	138	CA	ARG	A	35	14.731	5.125	13.473	93.15	0.00	C
ATOM	139	C	ARG	A	35	15.690	4.590	12.418	93.15	0.00	C
ATOM	140	O	ARG	A	35	16.103	5.317	11.514	93.15	0.00	O
ATOM	141	N	VAL	A	36	16.041	3.314	12.537	55.58	0.00	N
ATOM	142	CA	VAL	A	36	16.929	2.671	11.575	55.58	0.00	C
ATOM	143	C	VAL	A	36	16.278	2.579	10.201	55.58	0.00	C
ATOM	144	O	VAL	A	36	16.957	2.649	9.176	55.58	0.00	O
ATOM	145	N	ARG	A	37	14.959	2.421	10.186	20.52	0.00	N
ATOM	146	CA	ARG	A	37	14.208	2.368	8.937	20.52	0.00	C
ATOM	147	C	ARG	A	37	14.417	3.633	8.113	20.52	0.00	C
ATOM	148	O	ARG	A	37	14.613	3.570	6.900	20.52	0.00	O
ATOM	149	N	TYR	A	38	14.374	4.781	8.781	54.45	0.00	N
ATOM	150	CA	TYR	A	38	14.611	6.060	8.122	54.45	0.00	C
ATOM	151	C	TYR	A	38	16.074	6.212	7.725	54.45	0.00	C
ATOM	152	O	TYR	A	38	16.385	6.673	6.627	54.45	0.00	O
ATOM	153	N	GLU	A	39	16.969	5.821	8.626	73.98	0.00	N
ATOM	154	CA	GLU	A	39	18.402	5.959	8.391	73.98	0.00	C
ATOM	155	C	GLU	A	39	18.842	5.154	7.175	73.98	0.00	C
ATOM	156	O	GLU	A	39	19.711	5.582	6.416	73.98	0.00	O
ATOM	157	N	SER	A	40	18.235	3.985	6.996	37.54	0.00	N
ATOM	158	CA	SER	A	40	18.606	3.089	5.906	37.54	0.00	C
ATOM	159	C	SER	A	40	18.329	3.727	4.550	37.54	0.00	C
ATOM	160	O	SER	A	40	18.923	3.346	3.542	37.54	0.00	O
ATOM	161	N	GLU	A	41	17.425	4.702	4.534	2.00	0.00	N
ATOM	162	CA	GLU	A	41	17.068	5.394	3.302	2.00	0.00	C
ATOM	163	C	GLU	A	41	18.167	6.357	2.873	2.00	0.00	C
ATOM	164	O	GLU	A	41	18.262	6.724	1.701	2.00	0.00	O
ATOM	165	N	TYR	A	42	18.994	6.766	3.828	52.16	0.00	N
ATOM	166	CA	TYR	A	42	20.038	7.751	3.568	52.16	0.00	C
ATOM	167	C	TYR	A	42	21.424	7.157	3.786	52.16	0.00	C
ATOM	168	O	TYR	A	42	22.435	7.790	3.483	52.16	0.00	O
ATOM	169	N	LYS	A	43	21.463	5.938	4.312	61.43	0.00	N
ATOM	170	CA	LYS	A	43	22.722	5.235	4.523	61.43	0.00	C
ATOM	171	C	LYS	A	43	22.929	4.149	3.475	61.43	0.00	C
ATOM	172	O	LYS	A	43	24.025	3.995	2.935	61.43	0.00	O
ATOM	173	N	GLU	A	44	21.871	3.398	3.192	40.87	0.00	N
ATOM	174	CA	GLU	A	44	21.942	2.305	2.229	40.87	0.00	C
ATOM	175	C	GLU	A	44	21.383	2.726	0.875	40.87	0.00	C
ATOM	176	O	GLU	A	44	22.007	2.502	-0.161	40.87	0.00	O
ATOM	177	N	LEU	A	45	20.203	3.337	0.893	34.19	0.00	N
ATOM	178	CA	LEU	A	45	19.525	3.727	-0.337	34.19	0.00	C
ATOM	179	C	LEU	A	45	20.014	5.084	-0.828	34.19	0.00	C
ATOM	180	O	LEU	A	45	20.023	5.355	-2.029	34.19	0.00	O

ATOM	181	N	ALA	A	46	20.419	5.935	0.108	56.47	0.00	N
ATOM	182	CA	ALA	A	46	20.983	7.237	-0.232	56.47	0.00	C
ATOM	183	C	ALA	A	46	20.043	8.025	-1.135	56.47	0.00	C
ATOM	184	O	ALA	A	46	20.452	8.532	-2.180	56.47	0.00	O
ATOM	185	N	ILE	A	47	18.783	8.126	-0.726	44.14	0.00	N
ATOM	186	CA	ILE	A	47	17.759	8.757	-1.549	44.14	0.00	C
ATOM	187	C	ILE	A	47	17.930	10.269	-1.577	44.14	0.00	C
ATOM	188	O	ILE	A	47	17.333	10.956	-2.407	44.14	0.00	O
ATOM	189	N	SER	A	48	18.748	10.785	-0.666	56.13	0.00	N
ATOM	190	CA	SER	A	48	19.074	12.206	-0.646	56.13	0.00	C
ATOM	191	C	SER	A	48	19.890	12.602	-1.870	56.13	0.00	C
ATOM	192	O	SER	A	48	19.992	13.781	-2.205	56.13	0.00	O
ATOM	193	N	GLN	A	49	20.467	11.607	-2.536	63.24	0.00	N
ATOM	194	CA	GLN	A	49	21.241	11.846	-3.749	63.24	0.00	C
ATOM	195	C	GLN	A	49	20.479	11.388	-4.986	63.24	0.00	C
ATOM	196	O	GLN	A	49	21.056	11.246	-6.065	63.24	0.00	O
ATOM	197	N	VAL	A	50	19.180	11.159	-4.825	56.27	0.00	N
ATOM	198	CA	VAL	A	50	18.340	10.703	-5.925	56.27	0.00	C
ATOM	199	C	VAL	A	50	17.291	11.747	-6.287	56.27	0.00	C
ATOM	200	O	VAL	A	50	16.582	12.256	-5.418	56.27	0.00	O
ATOM	201	N	TYR	A	51	17.197	12.062	-7.573	45.04	0.00	N
ATOM	202	CA	TYR	A	51	16.254	13.069	-8.049	45.04	0.00	C
ATOM	203	C	TYR	A	51	14.815	12.599	-7.879	45.04	0.00	C
ATOM	204	O	TYR	A	51	13.941	13.375	-7.493	45.04	0.00	O
ATOM	205	N	ALA	A	52	14.576	11.325	-8.169	44.86	0.00	N
ATOM	206	CA	ALA	A	52	13.257	10.731	-7.980	44.86	0.00	C
ATOM	207	C	ALA	A	52	13.361	9.347	-7.352	44.86	0.00	C
ATOM	208	O	ALA	A	52	13.360	8.335	-8.051	44.86	0.00	O
ATOM	209	N	PRO	A	53	13.451	9.311	-6.027	43.70	0.00	N
ATOM	210	CA	PRO	A	53	13.607	8.054	-5.303	43.70	0.00	C
ATOM	211	C	PRO	A	53	12.506	7.067	-5.670	43.70	0.00	C
ATOM	212	O	PRO	A	53	12.726	5.856	-5.695	43.70	0.00	O
ATOM	213	N	SER	A	54	11.318	7.593	-5.956	42.78	0.00	N
ATOM	214	CA	SER	A	54	10.196	6.763	-6.380	42.78	0.00	C
ATOM	215	C	SER	A	54	10.522	6.009	-7.663	42.78	0.00	C
ATOM	216	O	SER	A	54	10.183	4.835	-7.807	42.78	0.00	O
ATOM	217	N	ALA	A	55	11.184	6.691	-8.592	45.72	0.00	N
ATOM	218	CA	ALA	A	55	11.513	6.103	-9.885	45.72	0.00	C
ATOM	219	C	ALA	A	55	12.622	5.067	-9.754	45.72	0.00	C
ATOM	220	O	ALA	A	55	12.538	3.977	-10.319	45.72	0.00	O
ATOM	221	N	ILE	A	56	13.662	5.415	-9.004	37.37	0.00	N
ATOM	222	CA	ILE	A	56	14.825	4.548	-8.857	37.37	0.00	C
ATOM	223	C	ILE	A	56	14.493	3.317	-8.023	37.37	0.00	C
ATOM	224	O	ILE	A	56	14.739	2.186	-8.441	37.37	0.00	O
ATOM	225	N	LEU	A	57	13.932	3.545	-6.840	21.14	0.00	N
ATOM	226	CA	LEU	A	57	13.512	2.454	-5.968	21.14	0.00	C
ATOM	227	C	LEU	A	57	12.328	1.699	-6.561	21.14	0.00	C
ATOM	228	O	LEU	A	57	12.154	0.506	-6.315	21.14	0.00	O
ATOM	229	N	GLY	A	58	11.517	2.403	-7.343	40.76	0.00	N
ATOM	230	CA	GLY	A	58	10.409	1.779	-8.056	40.76	0.00	C
ATOM	231	C	GLY	A	58	10.902	0.670	-8.976	40.76	0.00	C
ATOM	232	O	GLY	A	58	10.363	-0.437	-8.974	40.76	0.00	O
ATOM	233	N	ASP	A	59	11.929	0.972	-9.762	51.13	0.00	N
ATOM	234	CA	ASP	A	59	12.511	-0.005	-10.674	51.13	0.00	C
ATOM	235	C	ASP	A	59	13.190	-1.134	-9.909	51.13	0.00	C
ATOM	236	O	ASP	A	59	13.005	-2.310	-10.225	51.13	0.00	O
ATOM	237	N	ILE	A	60	13.980	-0.770	-8.905	29.56	0.00	N
ATOM	238	CA	ILE	A	60	14.739	-1.747	-8.134	29.56	0.00	C
ATOM	239	C	ILE	A	60	13.814	-2.718	-7.412	29.56	0.00	C
ATOM	240	O	ILE	A	60	14.056	-3.925	-7.396	29.56	0.00	O
ATOM	241	N	LEU	A	61	12.753	-2.185	-6.816	26.41	0.00	N
ATOM	242	CA	LEU	A	61	11.835	-2.990	-6.020	26.41	0.00	C
ATOM	243	C	LEU	A	61	10.872	-3.768	-6.908	26.41	0.00	C
ATOM	244	O	LEU	A	61	10.434	-4.863	-6.556	26.41	0.00	O
ATOM	245	N	HIS	A	62	10.545	-3.195	-8.061	53.85	0.00	N
ATOM	246	CA	HIS	A	62	9.725	-3.881	-9.052	53.85	0.00	C
ATOM	247	C	HIS	A	62	10.354	-5.205	-9.466	53.85	0.00	C
ATOM	248	O	HIS	A	62	9.667	-6.220	-9.585	53.85	0.00	O
ATOM	249	N	LEU	A	63	11.665	-5.188	-9.687	53.09	0.00	N
ATOM	250	CA	LEU	A	63	12.387	-6.385	-10.099	53.09	0.00	C
ATOM	251	C	LEU	A	63	12.630	-7.316	-8.917	53.09	0.00	C
ATOM	252	O	LEU	A	63	12.680	-8.537	-9.077	53.09	0.00	O
ATOM	253	N	GLY	A	64	12.780	-6.734	-7.732	47.77	0.00	N
ATOM	254	CA	GLY	A	64	13.088	-7.505	-6.534	47.77	0.00	C
ATOM	255	C	GLY	A	64	11.864	-7.642	-5.638	47.77	0.00	C
ATOM	256	O	GLY	A	64	11.247	-8.705	-5.572	47.77	0.00	O
ATOM	257	N	LEU	A	65	11.518	-6.560	-4.949	26.44	0.00	N
ATOM	258	CA	LEU	A	65	10.537	-6.620	-3.871	26.44	0.00	C
ATOM	259	C	LEU	A	65	9.259	-7.311	-4.327	26.44	0.00	C
ATOM	260	O	LEU	A	65	8.707	-8.149	-3.613	26.44	0.00	O
ATOM	261	N	GLU	A	66	8.792	-6.956	-5.519	54.44	0.00	N
ATOM	262	CA	GLU	A	66	7.540	-7.490	-6.042	54.44	0.00	C
ATOM	263	C	GLU	A	66	7.419	-8.983	-5.762	54.44	0.00	C
ATOM	264	O	GLU	A	66	6.398	-9.447	-5.255	54.44	0.00	O
ATOM	265	N	SER	A	67	8.465	-9.730	-6.096	47.72	0.00	N
ATOM	266	CA	SER	A	67	8.449	-11.180	-5.950	47.72	0.00	C
ATOM	267	C	SER	A	67	8.604	-11.589	-4.491	47.72	0.00	C
ATOM	268	O	SER	A	67	8.163	-12.665	-4.087	47.72	0.00	O
ATOM	269	N	VAL	A	68	9.234	-10.724	-3.703	48.52	0.00	N
ATOM	270	CA	VAL	A	68	9.393	-10.964	-2.274	48.52	0.00	C
ATOM	271	C	VAL	A	68	8.054	-10.889	-1.550	48.52	0.00	C
ATOM	272	O	VAL	A	68	7.738	-11.740	-0.720	48.52	0.00	O

ATOM	273	N	LEU	A	69	7.271	-9.866	-1.872	40.41	0.00	N
ATOM	274	CA	LEU	A	69	5.980	-9.656	-1.225	40.41	0.00	C
ATOM	275	C	LEU	A	69	4.946	-10.658	-1.723	40.41	0.00	C
ATOM	276	O	LEU	A	69	4.231	-11.271	-0.931	40.41	0.00	O
ATOM	277	N	LYS	A	70	4.871	-10.819	-3.040	41.93	0.00	N
ATOM	278	CA	LYS	A	70	3.845	-11.654	-3.652	41.93	0.00	C
ATOM	279	C	LYS	A	70	4.027	-13.118	-3.272	41.93	0.00	C
ATOM	280	O	LYS	A	70	3.078	-13.901	-3.308	41.93	0.00	O
ATOM	281	N	GLY	A	71	5.252	-13.481	-2.907	46.57	0.00	N
ATOM	282	CA	GLY	A	71	5.552	-14.843	-2.481	46.57	0.00	C
ATOM	283	C	GLY	A	71	5.089	-15.087	-1.051	46.57	0.00	C
ATOM	284	O	GLY	A	71	5.055	-16.226	-0.584	46.57	0.00	O
ATOM	285	N	ASN	A	72	4.732	-14.010	-0.358	46.68	0.00	N
ATOM	286	CA	ASN	A	72	4.356	-14.095	1.049	46.68	0.00	C
ATOM	287	C	ASN	A	72	2.928	-13.609	1.267	46.68	0.00	C
ATOM	288	O	ASN	A	72	2.463	-13.510	2.402	46.68	0.00	O
ATOM	289	N	PHE	A	73	2.237	-13.309	0.172	43.70	0.00	N
ATOM	290	CA	PHE	A	73	0.848	-12.873	0.239	43.70	0.00	C
ATOM	291	C	PHE	A	73	-0.068	-14.014	0.662	43.70	0.00	C
ATOM	292	O	PHE	A	73	0.091	-15.149	0.213	43.70	0.00	O
ATOM	293	N	ASN	A	74	-1.028	-13.707	1.528	53.08	0.00	N
ATOM	294	CA	ASN	A	74	-1.947	-14.714	2.043	53.08	0.00	C
ATOM	295	C	ASN	A	74	-3.373	-14.448	1.577	53.08	0.00	C
ATOM	296	O	ASN	A	74	-4.208	-15.353	1.556	53.08	0.00	O
ATOM	297	N	ALA	A	75	-3.647	-13.203	1.205	38.69	0.00	N
ATOM	298	CA	ALA	A	75	-4.928	-12.844	0.611	38.69	0.00	C
ATOM	299	C	ALA	A	75	-4.804	-11.600	-0.259	38.69	0.00	C
ATOM	300	O	ALA	A	75	-4.085	-10.661	0.084	38.69	0.00	O
ATOM	301	N	GLU	A	76	-5.508	-11.600	-1.385	45.22	0.00	N
ATOM	302	CA	GLU	A	76	-5.538	-10.440	-2.269	45.22	0.00	C
ATOM	303	C	GLU	A	76	-6.868	-10.345	-3.008	45.22	0.00	C
ATOM	304	O	GLU	A	76	-7.166	-11.164	-3.876	45.22	0.00	O
ATOM	305	N	THR	A	77	-7.662	-9.340	-2.657	56.43	0.00	N
ATOM	306	CA	THR	A	77	-9.011	-9.206	-3.194	56.43	0.00	C
ATOM	307	C	THR	A	77	-9.336	-7.751	-3.510	56.43	0.00	C
ATOM	308	O	THR	A	77	-9.064	-6.857	-2.710	56.43	0.00	O
ATOM	309	N	GLU	A	78	-9.920	-7.522	-4.681	57.47	0.00	N
ATOM	310	CA	GLU	A	78	-10.337	-6.183	-5.080	57.47	0.00	C
ATOM	311	C	GLU	A	78	-11.740	-5.870	-4.577	57.47	0.00	C
ATOM	312	O	GLU	A	78	-12.623	-6.728	-4.594	57.47	0.00	O
ATOM	313	N	VAL	A	79	-11.942	-4.635	-4.131	35.16	0.00	N
ATOM	314	CA	VAL	A	79	-13.246	-4.198	-3.647	35.16	0.00	C
ATOM	315	C	VAL	A	79	-13.470	-2.718	-3.927	35.16	0.00	C
ATOM	316	O	VAL	A	79	-12.557	-1.904	-3.785	35.16	0.00	O
ATOM	317	N	GLU	A	80	-14.689	-2.375	-4.328	42.23	0.00	N
ATOM	318	CA	GLU	A	80	-15.090	-0.978	-4.456	42.23	0.00	C
ATOM	319	C	GLU	A	80	-15.319	-0.343	-3.091	42.23	0.00	C
ATOM	320	O	GLU	A	80	-16.112	-0.837	-2.291	42.23	0.00	O
ATOM	321	N	THR	A	81	-14.618	0.756	-2.831	32.21	0.00	N
ATOM	322	CA	THR	A	81	-14.666	1.403	-1.525	32.21	0.00	C
ATOM	323	C	THR	A	81	-15.248	2.807	-1.626	32.21	0.00	C
ATOM	324	O	THR	A	81	-15.247	3.414	-2.698	32.21	0.00	O
ATOM	325	N	LEU	A	82	-15.746	3.318	-0.506	30.57	0.00	N
ATOM	326	CA	LEU	A	82	-16.377	4.633	-0.477	30.57	0.00	C
ATOM	327	C	LEU	A	82	-15.918	5.437	0.732	30.57	0.00	C
ATOM	328	O	LEU	A	82	-16.029	4.983	1.871	30.57	0.00	O
ATOM	329	N	ARG	A	83	-15.403	6.635	0.479	43.98	0.00	N
ATOM	330	CA	ARG	A	83	-14.987	7.533	1.551	43.98	0.00	C
ATOM	331	C	ARG	A	83	-15.441	8.962	1.279	43.98	0.00	C
ATOM	332	O	ARG	A	83	-15.627	9.355	0.128	43.98	0.00	O
ATOM	333	N	GLU	A	84	-15.616	9.734	2.345	48.79	0.00	N
ATOM	334	CA	GLU	A	84	-16.001	11.135	2.222	48.79	0.00	C
ATOM	335	C	GLU	A	84	-14.786	12.049	2.305	48.79	0.00	C
ATOM	336	O	GLU	A	84	-14.024	12.000	3.272	48.79	0.00	O
ATOM	337	N	ILE	A	85	-14.608	12.883	1.286	54.30	0.00	N
ATOM	338	CA	ILE	A	85	-13.444	13.758	1.206	54.30	0.00	C
ATOM	339	C	ILE	A	85	-13.855	15.197	0.921	54.30	0.00	C
ATOM	340	O	ILE	A	85	-14.708	15.452	0.071	54.30	0.00	O
ATOM	341	N	ASN	A	86	-13.243	16.134	1.637	49.78	0.00	N
ATOM	342	CA	ASN	A	86	-13.487	17.554	1.408	49.78	0.00	C
ATOM	343	C	ASN	A	86	-12.820	18.028	0.124	49.78	0.00	C
ATOM	344	O	ASN	A	86	-11.610	18.251	0.087	49.78	0.00	O
ATOM	345	N	VAL	A	87	-13.616	18.180	-0.929	52.65	0.00	N
ATOM	346	CA	VAL	A	87	-13.102	18.618	-2.221	52.65	0.00	C
ATOM	347	C	VAL	A	87	-13.692	19.964	-2.622	52.65	0.00	C
ATOM	348	O	VAL	A	87	-14.906	20.102	-2.765	52.65	0.00	O
ATOM	349	N	GLY	A	88	-12.825	20.955	-2.802	48.80	0.00	N
ATOM	350	CA	GLY	A	88	-13.253	22.277	-3.241	48.80	0.00	C
ATOM	351	C	GLY	A	88	-13.935	23.038	-2.111	48.80	0.00	C
ATOM	352	O	GLY	A	88	-14.637	24.022	-2.348	48.80	0.00	O
ATOM	353	N	GLY	A	89	-13.724	22.578	-0.883	48.31	0.00	N
ATOM	354	CA	GLY	A	89	-14.297	23.230	0.288	48.31	0.00	C
ATOM	355	C	GLY	A	89	-15.596	22.556	0.715	48.31	0.00	C
ATOM	356	O	GLY	A	89	-16.224	22.961	1.692	48.31	0.00	O
ATOM	357	N	LYS	A	90	-15.991	21.526	-0.025	50.78	0.00	N
ATOM	358	CA	LYS	A	90	-17.207	20.783	0.286	50.78	0.00	C
ATOM	359	C	LYS	A	90	-16.946	19.282	0.301	50.78	0.00	C
ATOM	360	O	LYS	A	90	-16.261	18.752	-0.574	50.78	0.00	O
ATOM	361	N	VAL	A	91	-17.496	18.601	1.301	52.58	0.00	N
ATOM	362	CA	VAL	A	91	-17.302	17.164	1.447	52.58	0.00	C
ATOM	363	C	VAL	A	91	-18.195	16.387	0.487	52.58	0.00	C
ATOM	364	O	VAL	A	91	-19.415	16.549	0.492	52.58	0.00	O

ATOM	365	N	TYR	A	92	-17.579	15.544	-0.334	65.64	0.00	N
ATOM	366	CA	TYR	A	92	-18.319	14.720	-1.282	65.64	0.00	C
ATOM	367	C	TYR	A	92	-18.048	13.239	-1.054	65.64	0.00	C
ATOM	368	O	TYR	A	92	-16.952	12.854	-0.645	65.64	0.00	O
ATOM	369	N	LYS	A	93	-19.052	12.410	-1.319	72.23	0.00	N
ATOM	370	CA	LYS	A	93	-18.878	10.963	-1.298	72.23	0.00	C
ATOM	371	C	LYS	A	93	-18.201	10.470	-2.570	72.23	0.00	C
ATOM	372	O	LYS	A	93	-18.718	10.656	-3.672	72.23	0.00	O
ATOM	373	N	ILE	A	94	-17.041	9.841	-2.411	56.66	0.00	N
ATOM	374	CA	ILE	A	94	-16.238	9.417	-3.552	56.66	0.00	C
ATOM	375	C	ILE	A	94	-15.970	7.918	-3.510	56.66	0.00	C
ATOM	376	O	ILE	A	94	-15.439	7.400	-2.527	56.66	0.00	O
ATOM	377	N	LYS	A	95	-16.341	7.226	-4.582	73.79	0.00	N
ATOM	378	CA	LYS	A	95	-16.077	5.797	-4.699	73.79	0.00	C
ATOM	379	C	LYS	A	95	-14.855	5.531	-5.567	73.79	0.00	C
ATOM	380	O	LYS	A	95	-14.468	6.367	-6.384	73.79	0.00	O
ATOM	381	N	GLY	A	96	-14.250	4.362	-5.388	50.94	0.00	N
ATOM	382	CA	GLY	A	96	-13.123	3.947	-6.213	50.94	0.00	C
ATOM	383	C	GLY	A	96	-12.812	2.469	-6.020	50.94	0.00	C
ATOM	384	O	GLY	A	96	-13.457	1.789	-5.221	50.94	0.00	O
ATOM	385	N	ARG	A	97	-11.822	1.975	-6.756	36.06	0.00	N
ATOM	386	CA	ARG	A	97	-11.459	0.564	-6.706	36.06	0.00	C
ATOM	387	C	ARG	A	97	-10.170	0.354	-5.923	36.06	0.00	C
ATOM	388	O	ARG	A	97	-9.115	0.865	-6.297	36.06	0.00	O
ATOM	389	N	ALA	A	98	-10.263	-0.402	-4.834	44.10	0.00	N
ATOM	390	CA	ALA	A	98	-9.107	-0.670	-3.987	44.10	0.00	C
ATOM	391	C	ALA	A	98	-8.847	-2.165	-3.864	44.10	0.00	C
ATOM	392	O	ALA	A	98	-9.741	-2.933	-3.507	44.10	0.00	O
ATOM	393	N	ASP	A	99	-7.618	-2.574	-4.163	48.55	0.00	N
ATOM	394	CA	ASP	A	99	-7.213	-3.966	-4.003	48.55	0.00	C
ATOM	395	C	ASP	A	99	-6.610	-4.209	-2.626	48.55	0.00	C
ATOM	396	O	ASP	A	99	-5.477	-3.811	-2.355	48.55	0.00	O
ATOM	397	N	ALA	A	100	-7.373	-4.864	-1.759	55.53	0.00	N
ATOM	398	CA	ALA	A	100	-6.911	-5.173	-0.410	55.53	0.00	C
ATOM	399	C	ALA	A	100	-5.886	-6.300	-0.424	55.53	0.00	C
ATOM	400	O	ALA	A	100	-6.172	-7.407	-0.880	55.53	0.00	O
ATOM	401	N	ILE	A	101	-4.691	-6.012	0.078	45.41	0.00	N
ATOM	402	CA	ILE	A	101	-3.597	-6.975	0.054	45.41	0.00	C
ATOM	403	C	ILE	A	101	-3.146	-7.332	1.465	45.41	0.00	C
ATOM	404	O	ILE	A	101	-2.630	-6.486	2.195	45.41	0.00	O
ATOM	405	N	ILE	A	102	-3.344	-8.590	1.843	45.98	0.00	N
ATOM	406	CA	ILE	A	102	-2.907	-9.076	3.146	45.98	0.00	C
ATOM	407	C	ILE	A	102	-1.684	-9.977	3.016	45.98	0.00	C
ATOM	408	O	ILE	A	102	-1.742	-11.032	2.385	45.98	0.00	O
ATOM	409	N	ARG	A	103	-0.578	-9.554	3.617	0.00	0.00	N
ATOM	410	CA	ARG	A	103	0.664	-10.316	3.562	0.00	0.00	C
ATOM	411	C	ARG	A	103	0.882	-11.107	4.845	0.00	0.00	C
ATOM	412	O	ARG	A	103	1.496	-12.174	4.832	0.00	0.00	O
ATOM	413	N	ASN	A	104	0.376	-10.577	5.954	49.80	0.00	N
ATOM	414	CA	ASN	A	104	0.451	-11.268	7.236	49.80	0.00	C
ATOM	415	C	ASN	A	104	-0.619	-10.765	8.196	49.80	0.00	C
ATOM	416	O	ASN	A	104	-0.427	-9.761	8.883	49.80	0.00	O
ATOM	417	N	ASP	A	105	-1.746	-11.467	8.240	49.74	0.00	N
ATOM	418	CA	ASP	A	105	-2.863	-11.070	9.089	49.74	0.00	C
ATOM	419	C	ASP	A	105	-2.420	-10.887	10.534	49.74	0.00	C
ATOM	420	O	ASP	A	105	-2.654	-9.840	11.138	49.74	0.00	O
ATOM	421	N	ASN	A	106	-1.776	-11.912	11.085	45.80	0.00	N
ATOM	422	CA	ASN	A	106	-1.372	-11.899	12.485	45.80	0.00	C
ATOM	423	C	ASN	A	106	-0.329	-10.821	12.748	45.80	0.00	C
ATOM	424	O	ASN	A	106	-0.302	-10.218	13.821	45.80	0.00	O
ATOM	425	N	GLY	A	107	0.531	-10.584	11.764	40.33	0.00	N
ATOM	426	CA	GLY	A	107	1.592	-9.593	11.894	40.33	0.00	C
ATOM	427	C	GLY	A	107	1.103	-8.208	11.491	40.33	0.00	C
ATOM	428	O	GLY	A	107	1.876	-7.250	11.462	40.33	0.00	O
ATOM	429	N	LYS	A	108	-0.184	-8.108	11.178	28.24	0.00	N
ATOM	430	CA	LYS	A	108	-0.790	-6.828	10.828	28.24	0.00	C
ATOM	431	C	LYS	A	108	-0.114	-6.213	9.610	28.24	0.00	C
ATOM	432	O	LYS	A	108	0.002	-4.992	9.503	28.24	0.00	O
ATOM	433	N	SER	A	109	0.333	-7.066	8.693	50.50	0.00	N
ATOM	434	CA	SER	A	109	0.935	-6.606	7.449	50.50	0.00	C
ATOM	435	C	SER	A	109	-0.095	-6.550	6.326	50.50	0.00	C
ATOM	436	O	SER	A	109	-0.343	-7.547	5.649	50.50	0.00	O
ATOM	437	N	ILE	A	110	-0.690	-5.379	6.134	46.11	0.00	N
ATOM	438	CA	ILE	A	110	-1.730	-5.202	5.127	46.11	0.00	C
ATOM	439	C	ILE	A	110	-1.574	-3.873	4.400	46.11	0.00	C
ATOM	440	O	ILE	A	110	-1.365	-2.834	5.026	46.11	0.00	O
ATOM	441	N	VAL	A	111	-1.676	-3.913	3.076	52.77	0.00	N
ATOM	442	CA	VAL	A	111	-1.586	-2.705	2.264	52.77	0.00	C
ATOM	443	C	VAL	A	111	-2.720	-2.640	1.249	52.77	0.00	C
ATOM	444	O	VAL	A	111	-3.483	-3.592	1.094	52.77	0.00	O
ATOM	445	N	ILE	A	112	-2.824	-1.509	0.559	49.99	0.00	N
ATOM	446	CA	ILE	A	112	-3.885	-1.304	-0.420	49.99	0.00	C
ATOM	447	C	ILE	A	112	-3.319	-0.838	-1.756	49.99	0.00	C
ATOM	448	O	ILE	A	112	-2.634	0.183	-1.828	49.99	0.00	O
ATOM	449	N	GLU	A	113	-3.609	-1.591	-2.811	56.99	0.00	N
ATOM	450	CA	GLU	A	113	-3.240	-1.190	-4.163	56.99	0.00	C
ATOM	451	C	GLU	A	113	-4.434	-0.611	-4.912	56.99	0.00	C
ATOM	452	O	GLU	A	113	-5.368	-1.332	-5.262	56.99	0.00	O
ATOM	453	N	ILE	A	114	-4.398	0.695	-5.153	52.33	0.00	N
ATOM	454	CA	ILE	A	114	-5.512	1.387	-5.789	52.33	0.00	C
ATOM	455	C	ILE	A	114	-5.478	1.212	-7.302	52.33	0.00	C
ATOM	456	O	ILE	A	114	-4.453	1.447	-7.941	52.33	0.00	O

ATOM	457	N	LYS	A	115	-6.606	0.799	-7.870	54.13	0.00	N
ATOM	458	CA	LYS	A	115	-6.678	0.488	-9.292	54.13	0.00	C
ATOM	459	C	LYS	A	115	-7.791	1.274	-9.972	54.13	0.00	C
ATOM	460	O	LYS	A	115	-8.637	1.873	-9.308	54.13	0.00	O
ATOM	461	N	THR	A	116	-7.785	1.269	-11.301	43.55	0.00	N
ATOM	462	CA	THR	A	116	-8.842	1.909	-12.074	43.55	0.00	C
ATOM	463	C	THR	A	116	-10.181	1.218	-11.856	43.55	0.00	C
ATOM	464	O	THR	A	116	-10.266	-0.010	-11.870	43.55	0.00	O
ATOM	465	N	SER	A	117	-11.226	2.013	-11.653	40.11	0.00	N
ATOM	466	CA	SER	A	117	-12.526	1.484	-11.257	40.11	0.00	C
ATOM	467	C	SER	A	117	-13.064	0.509	-12.295	40.11	0.00	C
ATOM	468	O	SER	A	117	-13.720	-0.476	-11.955	40.11	0.00	O
ATOM	469	N	ARG	A	118	-12.783	0.788	-13.563	45.62	0.00	N
ATOM	470	CA	ARG	A	118	-13.249	-0.057	-14.656	45.62	0.00	C
ATOM	471	C	ARG	A	118	-12.644	-1.453	-14.569	45.62	0.00	C
ATOM	472	O	ARG	A	118	-11.434	-1.605	-14.401	45.62	0.00	O
ATOM	473	N	SER	A	119	-13.493	-2.468	-14.686	45.19	0.00	N
ATOM	474	CA	SER	A	119	-13.060	-3.851	-14.523	45.19	0.00	C
ATOM	475	C	SER	A	119	-12.137	-4.276	-15.658	45.19	0.00	C
ATOM	476	O	SER	A	119	-11.366	-5.226	-15.520	45.19	0.00	O
ATOM	477	N	ASP	A	120	-12.220	-3.567	-16.779	53.65	0.00	N
ATOM	478	CA	ASP	A	120	-11.357	-3.839	-17.922	53.65	0.00	C
ATOM	479	C	ASP	A	120	-10.000	-3.166	-17.761	53.65	0.00	C
ATOM	480	O	ASP	A	120	-9.066	-3.444	-18.514	53.65	0.00	O
ATOM	481	N	LYS	A	121	-9.896	-2.283	-16.775	42.30	0.00	N
ATOM	482	CA	LYS	A	121	-8.668	-1.534	-16.543	42.30	0.00	C
ATOM	483	C	LYS	A	121	-8.080	-1.850	-15.173	42.30	0.00	C
ATOM	484	O	LYS	A	121	-8.634	-2.650	-14.420	42.30	0.00	O
ATOM	485	N	GLY	A	122	-6.955	-1.218	-14.858	49.97	0.00	N
ATOM	486	CA	GLY	A	122	-6.294	-1.427	-13.574	49.97	0.00	C
ATOM	487	C	GLY	A	122	-5.207	-0.385	-13.340	49.97	0.00	C
ATOM	488	O	GLY	A	122	-5.158	0.640	-14.021	49.97	0.00	O
ATOM	489	N	LEU	A	123	-4.336	-0.653	-12.374	66.42	0.00	N
ATOM	490	CA	LEU	A	123	-3.232	0.248	-12.064	66.42	0.00	C
ATOM	491	C	LEU	A	123	-2.035	-0.017	-12.966	66.42	0.00	C
ATOM	492	O	LEU	A	123	-1.493	-1.122	-12.987	66.42	0.00	O
ATOM	493	N	PRO	A	124	-1.625	1.004	-13.712	52.81	0.00	N
ATOM	494	CA	PRO	A	124	-0.461	0.897	-14.584	52.81	0.00	C
ATOM	495	C	PRO	A	124	0.771	0.456	-13.805	52.81	0.00	C
ATOM	496	O	PRO	A	124	0.934	0.800	-12.633	52.81	0.00	O
ATOM	497	N	LEU	A	125	1.638	-0.307	-14.461	37.58	0.00	N
ATOM	498	CA	LEU	A	125	2.822	-0.856	-13.810	37.58	0.00	C
ATOM	499	C	LEU	A	125	3.741	0.253	-13.315	37.58	0.00	C
ATOM	500	O	LEU	A	125	4.473	0.077	-12.340	37.58	0.00	O
ATOM	501	N	ILE	A	126	3.700	1.396	-13.990	55.60	0.00	N
ATOM	502	CA	ILE	A	126	4.514	2.543	-13.606	55.60	0.00	C
ATOM	503	C	ILE	A	126	4.041	3.136	-12.284	55.60	0.00	C
ATOM	504	O	ILE	A	126	4.781	3.861	-11.619	55.60	0.00	O
ATOM	505	N	HIS	A	127	2.805	2.823	-11.910	54.70	0.00	N
ATOM	506	CA	HIS	A	127	2.281	3.204	-10.603	54.70	0.00	C
ATOM	507	C	HIS	A	127	2.455	2.078	-9.592	54.70	0.00	C
ATOM	508	O	HIS	A	127	2.622	2.324	-8.397	54.70	0.00	O
ATOM	509	N	HIS	A	128	2.415	0.842	-10.077	42.39	0.00	N
ATOM	510	CA	HIS	A	128	2.726	-0.317	-9.249	42.39	0.00	C
ATOM	511	C	HIS	A	128	4.125	-0.210	-8.657	42.39	0.00	C
ATOM	512	O	HIS	A	128	4.354	-0.591	-7.509	42.39	0.00	O
ATOM	513	N	LYS	A	129	5.059	0.308	-9.447	38.83	0.00	N
ATOM	514	CA	LYS	A	129	6.413	0.559	-8.971	38.83	0.00	C
ATOM	515	C	LYS	A	129	6.408	1.455	-7.739	38.83	0.00	C
ATOM	516	O	LYS	A	129	7.098	1.180	-6.756	38.83	0.00	O
ATOM	517	N	MET	A	130	5.626	2.527	-7.797	53.12	0.00	N
ATOM	518	CA	MET	A	130	5.529	3.466	-6.686	53.12	0.00	C
ATOM	519	C	MET	A	130	4.824	2.836	-5.492	53.12	0.00	C
ATOM	520	O	MET	A	130	5.153	3.124	-4.341	53.12	0.00	O
ATOM	521	N	GLN	A	131	3.851	1.976	-5.772	55.83	0.00	N
ATOM	522	CA	GLN	A	131	3.175	1.217	-4.728	55.83	0.00	C
ATOM	523	C	GLN	A	131	4.166	0.395	-3.914	55.83	0.00	C
ATOM	524	O	GLN	A	131	4.127	0.398	-2.683	55.83	0.00	O
ATOM	525	N	LEU	A	132	5.055	-0.308	-4.607	51.50	0.00	N
ATOM	526	CA	LEU	A	132	6.068	-1.124	-3.950	51.50	0.00	C
ATOM	527	C	LEU	A	132	7.001	-0.269	-3.103	51.50	0.00	C
ATOM	528	O	LEU	A	132	7.452	-0.691	-2.039	51.50	0.00	O
ATOM	529	N	GLN	A	133	7.287	0.938	-3.581	48.48	0.00	N
ATOM	530	CA	GLN	A	133	8.145	1.866	-2.856	48.48	0.00	C
ATOM	531	C	GLN	A	133	7.520	2.273	-1.529	48.48	0.00	C
ATOM	532	O	GLN	A	133	8.187	2.281	-0.494	48.48	0.00	O
ATOM	533	N	ILE	A	134	6.235	2.609	-1.564	74.19	0.00	N
ATOM	534	CA	ILE	A	134	5.535	3.090	-0.379	74.19	0.00	C
ATOM	535	C	ILE	A	134	5.147	1.938	0.538	74.19	0.00	C
ATOM	536	O	ILE	A	134	4.868	2.139	1.719	74.19	0.00	O
ATOM	537	N	TYR	A	135	5.132	0.730	-0.014	50.36	0.00	N
ATOM	538	CA	TYR	A	135	4.877	-0.470	0.776	50.36	0.00	C
ATOM	539	C	TYR	A	135	5.951	-0.670	1.836	50.36	0.00	C
ATOM	540	O	TYR	A	135	5.722	-1.332	2.848	50.36	0.00	O
ATOM	541	N	LEU	A	136	7.125	-0.096	1.597	55.33	0.00	N
ATOM	542	CA	LEU	A	136	8.222	-0.166	2.556	55.33	0.00	C
ATOM	543	C	LEU	A	136	7.791	0.346	3.924	55.33	0.00	C
ATOM	544	O	LEU	A	136	8.285	-0.114	4.954	55.33	0.00	O
ATOM	545	N	TRP	A	137	6.866	1.300	3.929	58.33	0.00	N
ATOM	546	CA	TRP	A	137	6.444	1.951	5.163	58.33	0.00	C
ATOM	547	C	TRP	A	137	5.014	1.571	5.526	58.33	0.00	C
ATOM	548	O	TRP	A	137	4.650	1.533	6.701	58.33	0.00	O

ATOM	549	N	LEU	A	138	4.206	1.289	4.508	32.14	0.00	N
ATOM	550	CA	LEU	A	138	2.816	0.903	4.719	32.14	0.00	C
ATOM	551	C	LEU	A	138	2.719	-0.444	5.422	32.14	0.00	C
ATOM	552	O	LEU	A	138	1.850	-0.653	6.268	32.14	0.00	O
ATOM	553	N	PHE	A	139	3.616	-1.357	5.066	45.69	0.00	N
ATOM	554	CA	PHE	A	139	3.709	-2.646	5.742	45.69	0.00	C
ATOM	555	C	PHE	A	139	4.290	-2.493	7.143	45.69	0.00	C
ATOM	556	O	PHE	A	139	3.740	-3.013	8.114	45.69	0.00	O
ATOM	557	N	SER	A	140	5.404	-1.775	7.240	48.76	0.00	N
ATOM	558	CA	SER	A	140	6.189	-1.743	8.468	48.76	0.00	C
ATOM	559	C	SER	A	140	5.547	-0.836	9.509	48.76	0.00	C
ATOM	560	O	SER	A	140	5.817	-0.958	10.704	48.76	0.00	O
ATOM	561	N	ALA	A	141	4.694	0.074	9.049	46.70	0.00	N
ATOM	562	CA	ALA	A	141	3.954	0.954	9.946	46.70	0.00	C
ATOM	563	C	ALA	A	141	2.557	0.415	10.217	46.70	0.00	C
ATOM	564	O	ALA	A	141	1.811	0.972	11.023	46.70	0.00	O
ATOM	565	N	GLU	A	142	2.206	-0.672	9.538	24.72	0.00	N
ATOM	566	CA	GLU	A	142	0.882	-1.271	9.681	24.72	0.00	C
ATOM	567	C	GLU	A	142	-0.214	-0.273	9.329	24.72	0.00	C
ATOM	568	O	GLU	A	142	-1.168	-0.093	10.085	24.72	0.00	O
ATOM	569	N	LYS	A	143	-0.071	0.374	8.178	36.43	0.00	N
ATOM	570	CA	LYS	A	143	-1.005	1.414	7.762	36.43	0.00	C
ATOM	571	C	LYS	A	143	-1.541	1.146	6.362	36.43	0.00	C
ATOM	572	O	LYS	A	143	-1.013	0.303	5.636	36.43	0.00	O
ATOM	573	N	GLY	A	144	-2.590	1.870	5.988	50.78	0.00	N
ATOM	574	CA	GLY	A	144	-3.191	1.721	4.667	50.78	0.00	C
ATOM	575	C	GLY	A	144	-3.476	3.079	4.036	50.78	0.00	C
ATOM	576	O	GLY	A	144	-3.227	4.120	4.643	50.78	0.00	O
ATOM	577	N	ILE	A	145	-3.997	3.059	2.814	48.61	0.00	N
ATOM	578	CA	ILE	A	145	-4.347	4.288	2.111	48.61	0.00	C
ATOM	579	C	ILE	A	145	-5.389	4.026	1.031	48.61	0.00	C
ATOM	580	O	ILE	A	145	-5.278	3.067	0.268	48.61	0.00	O
ATOM	581	N	LEU	A	146	-6.400	4.886	0.971	52.71	0.00	N
ATOM	582	CA	LEU	A	146	-7.386	4.837	-0.102	52.71	0.00	C
ATOM	583	C	LEU	A	146	-7.304	6.078	-0.981	52.71	0.00	C
ATOM	584	O	LEU	A	146	-7.851	7.127	-0.642	52.71	0.00	O
ATOM	585	N	VAL	A	147	-6.619	5.951	-2.113	58.59	0.00	N
ATOM	586	CA	VAL	A	147	-6.448	7.068	-3.034	58.59	0.00	C
ATOM	587	C	VAL	A	147	-7.651	7.212	-3.955	58.59	0.00	C
ATOM	588	O	VAL	A	147	-8.104	6.239	-4.558	58.59	0.00	O
ATOM	589	N	TYR	A	148	-8.167	8.433	-4.060	50.20	0.00	N
ATOM	590	CA	TYR	A	148	-9.299	8.713	-4.936	50.20	0.00	C
ATOM	591	C	TYR	A	148	-8.964	9.812	-5.936	50.20	0.00	C
ATOM	592	O	TYR	A	148	-8.220	10.742	-5.623	50.20	0.00	O
ATOM	593	N	ILE	A	149	-9.515	9.699	-7.138	59.40	0.00	N
ATOM	594	CA	ILE	A	149	-9.255	10.669	-8.195	59.40	0.00	C
ATOM	595	C	ILE	A	149	-10.551	11.264	-8.730	59.40	0.00	C
ATOM	596	O	ILE	A	149	-11.401	10.548	-9.260	59.40	0.00	O
ATOM	597	N	THR	A	150	-10.697	12.576	-8.589	50.91	0.00	N
ATOM	598	CA	THR	A	150	-11.848	13.283	-9.139	50.91	0.00	C
ATOM	599	C	THR	A	150	-11.435	14.196	-10.286	50.91	0.00	C
ATOM	600	O	THR	A	150	-10.267	14.560	-10.414	50.91	0.00	O
ATOM	601	N	PRO	A	151	-12.403	14.565	-11.119	38.79	0.00	N
ATOM	602	CA	PRO	A	151	-12.150	15.467	-12.236	38.79	0.00	C
ATOM	603	C	PRO	A	151	-11.749	16.853	-11.745	38.79	0.00	C
ATOM	604	O	PRO	A	151	-11.261	17.677	-12.518	38.79	0.00	O
ATOM	605	N	ASP	A	152	-11.957	17.102	-10.458	46.49	0.00	N
ATOM	606	CA	ASP	A	152	-11.584	18.375	-9.853	46.49	0.00	C
ATOM	607	C	ASP	A	152	-10.167	18.325	-9.295	46.49	0.00	C
ATOM	608	O	ASP	A	152	-9.387	19.261	-9.472	46.49	0.00	O
ATOM	609	N	ARG	A	153	-9.841	17.229	-8.620	48.05	0.00	N
ATOM	610	CA	ARG	A	153	-8.526	17.068	-8.010	48.05	0.00	C
ATOM	611	C	ARG	A	153	-8.323	15.644	-7.509	48.05	0.00	C
ATOM	612	O	ARG	A	153	-9.284	14.897	-7.324	48.05	0.00	O
ATOM	613	N	ILE	A	154	-7.065	15.272	-7.291	44.50	0.00	N
ATOM	614	CA	ILE	A	154	-6.740	13.998	-6.664	44.50	0.00	C
ATOM	615	C	ILE	A	154	-6.587	14.148	-5.156	44.50	0.00	C
ATOM	616	O	ILE	A	154	-5.919	15.064	-4.679	44.50	0.00	O
ATOM	617	N	ALA	A	155	-7.212	13.244	-4.409	44.74	0.00	N
ATOM	618	CA	ALA	A	155	-7.213	13.320	-2.954	44.74	0.00	C
ATOM	619	C	ALA	A	155	-7.017	11.944	-2.330	44.74	0.00	C
ATOM	620	O	ALA	A	155	-7.554	10.949	-2.816	44.74	0.00	O
ATOM	621	N	GLU	A	156	-6.245	11.894	-1.249	44.85	0.00	N
ATOM	622	CA	GLU	A	156	-5.882	10.628	-0.625	44.85	0.00	C
ATOM	623	C	GLU	A	156	-6.514	10.493	0.755	44.85	0.00	C
ATOM	624	O	GLU	A	156	-6.402	11.391	1.590	44.85	0.00	O
ATOM	625	N	TYR	A	157	-7.179	9.366	0.988	45.56	0.00	N
ATOM	626	CA	TYR	A	157	-7.688	9.038	2.314	45.56	0.00	C
ATOM	627	C	TYR	A	157	-6.734	8.111	3.056	45.56	0.00	C
ATOM	628	O	TYR	A	157	-6.838	6.888	2.958	45.56	0.00	O
ATOM	629	N	GLU	A	158	-5.804	8.701	3.800	42.77	0.00	N
ATOM	630	CA	GLU	A	158	-4.818	7.931	4.548	42.77	0.00	C
ATOM	631	C	GLU	A	158	-5.462	7.202	5.720	42.77	0.00	C
ATOM	632	O	GLU	A	158	-6.300	7.762	6.427	42.77	0.00	O
ATOM	633	N	ILE	A	159	-5.067	5.950	5.921	48.46	0.00	N
ATOM	634	CA	ILE	A	159	-5.604	5.142	7.010	48.46	0.00	C
ATOM	635	C	ILE	A	159	-4.551	4.892	8.082	48.46	0.00	C
ATOM	636	O	ILE	A	159	-3.571	4.185	7.850	48.46	0.00	O
ATOM	637	N	ASN	A	160	-4.761	5.477	9.257	42.29	0.00	N
ATOM	638	CA	ASN	A	160	-3.779	5.407	10.332	42.29	0.00	C
ATOM	639	C	ASN	A	160	-3.594	3.976	10.818	42.29	0.00	C
ATOM	640	O	ASN	A	160	-4.358	3.082	10.452	42.29	0.00	O

ATOM	641	N	GLU	A	161	-2.575	3.763	11.644	29.62	0.00	N
ATOM	642	CA	GLU	A	161	-2.253	2.429	12.137	29.62	0.00	C
ATOM	643	C	GLU	A	161	-3.358	1.894	13.041	29.62	0.00	C
ATOM	644	O	GLU	A	161	-3.853	0.785	12.840	29.62	0.00	O
ATOM	645	N	PRO	A	162	-3.739	2.688	14.035	47.60	0.00	N
ATOM	646	CA	PRO	A	162	-4.800	2.304	14.958	47.60	0.00	C
ATOM	647	C	PRO	A	162	-6.158	2.303	14.268	47.60	0.00	C
ATOM	648	O	PRO	A	162	-7.060	1.560	14.652	47.60	0.00	O
ATOM	649	N	LEU	A	163	-6.297	3.141	13.245	43.37	0.00	N
ATOM	650	CA	LEU	A	163	-7.508	3.166	12.435	43.37	0.00	C
ATOM	651	C	LEU	A	163	-7.657	1.883	11.626	43.37	0.00	C
ATOM	652	O	LEU	A	163	-8.745	1.317	11.537	43.37	0.00	O
ATOM	653	N	ASP	A	164	-6.555	1.430	11.038	15.75	0.00	N
ATOM	654	CA	ASP	A	164	-6.541	0.170	10.305	15.75	0.00	C
ATOM	655	C	ASP	A	164	-6.905	-0.999	11.212	15.75	0.00	C
ATOM	656	O	ASP	A	164	-7.704	-1.859	10.841	15.75	0.00	O
ATOM	657	N	GLU	A	165	-6.314	-1.024	12.402	44.28	0.00	N
ATOM	658	CA	GLU	A	165	-6.625	-2.051	13.389	44.28	0.00	C
ATOM	659	C	GLU	A	165	-8.101	-2.027	13.764	44.28	0.00	C
ATOM	660	O	GLU	A	165	-8.738	-3.074	13.885	44.28	0.00	O
ATOM	661	N	ALA	A	166	-8.641	-0.826	13.946	56.50	0.00	N
ATOM	662	CA	ALA	A	166	-10.042	-0.664	14.320	56.50	0.00	C
ATOM	663	C	ALA	A	166	-10.966	-1.240	13.256	56.50	0.00	C
ATOM	664	O	ALA	A	166	-11.924	-1.947	13.569	56.50	0.00	O
ATOM	665	N	THR	A	167	-10.675	-0.933	11.997	42.80	0.00	N
ATOM	666	CA	THR	A	167	-11.529	-1.344	10.890	42.80	0.00	C
ATOM	667	C	THR	A	167	-11.428	-2.843	10.642	42.80	0.00	C
ATOM	668	O	THR	A	167	-12.402	-3.486	10.251	42.80	0.00	O
ATOM	669	N	ILE	A	168	-10.242	-3.397	10.872	43.48	0.00	N
ATOM	670	CA	ILE	A	168	-10.030	-4.834	10.752	43.48	0.00	C
ATOM	671	C	ILE	A	168	-10.884	-5.602	11.753	43.48	0.00	C
ATOM	672	O	ILE	A	168	-11.614	-6.523	11.384	43.48	0.00	O
ATOM	673	N	VAL	A	169	-10.789	-5.219	13.021	59.04	0.00	N
ATOM	674	CA	VAL	A	169	-11.501	-5.913	14.087	59.04	0.00	C
ATOM	675	C	VAL	A	169	-13.005	-5.697	13.977	59.04	0.00	C
ATOM	676	O	VAL	A	169	-13.788	-6.638	14.105	59.04	0.00	O
ATOM	677	N	ARG	A	170	-13.403	-4.452	13.740	42.54	0.00	N
ATOM	678	CA	ARG	A	170	-14.815	-4.093	13.701	42.54	0.00	C
ATOM	679	C	ARG	A	170	-15.531	-4.793	12.552	42.54	0.00	C
ATOM	680	O	ARG	A	170	-16.626	-5.327	12.724	42.54	0.00	O
ATOM	681	N	LEU	A	171	-14.904	-4.787	11.381	50.99	0.00	N
ATOM	682	CA	LEU	A	171	-15.507	-5.367	10.186	50.99	0.00	C
ATOM	683	C	LEU	A	171	-15.463	-6.888	10.230	50.99	0.00	C
ATOM	684	O	LEU	A	171	-16.337	-7.560	9.681	50.99	0.00	O
ATOM	685	N	ALA	A	172	-14.441	-7.428	10.886	48.07	0.00	N
ATOM	686	CA	ALA	A	172	-14.363	-8.861	11.136	48.07	0.00	C
ATOM	687	C	ALA	A	172	-15.526	-9.335	11.999	48.07	0.00	C
ATOM	688	O	ALA	A	172	-16.155	-10.351	11.705	48.07	0.00	O
ATOM	689	N	GLU	A	173	-15.806	-8.593	13.064	69.67	0.00	N
ATOM	690	CA	GLU	A	173	-16.909	-8.923	13.959	69.67	0.00	C
ATOM	691	C	GLU	A	173	-18.254	-8.722	13.274	69.67	0.00	C
ATOM	692	O	GLU	A	173	-19.193	-9.488	13.492	69.67	0.00	O
ATOM	693	N	ASP	A	174	-18.341	-7.688	12.444	40.91	0.00	N
ATOM	694	CA	ASP	A	174	-19.549	-7.427	11.670	40.91	0.00	C
ATOM	695	C	ASP	A	174	-19.832	-8.558	10.690	40.91	0.00	C
ATOM	696	O	ASP	A	174	-20.981	-8.955	10.500	40.91	0.00	O
ATOM	697	N	THR	A	175	-18.776	-9.076	10.071	47.42	0.00	N
ATOM	698	CA	THR	A	175	-18.902	-10.206	9.159	47.42	0.00	C
ATOM	699	C	THR	A	175	-19.352	-11.461	9.896	47.42	0.00	C
ATOM	700	O	THR	A	175	-20.185	-12.219	9.399	47.42	0.00	O
ATOM	701	N	ILE	A	176	-18.797	-11.674	11.085	32.81	0.00	N
ATOM	702	CA	ILE	A	176	-19.205	-12.788	11.932	32.81	0.00	C
ATOM	703	C	ILE	A	176	-20.692	-12.716	12.258	32.81	0.00	C
ATOM	704	O	ILE	A	176	-21.408	-13.713	12.155	32.81	0.00	O
ATOM	705	N	MET	A	177	-21.150	-11.533	12.649	38.99	0.00	N
ATOM	706	CA	MET	A	177	-22.556	-11.325	12.975	38.99	0.00	C
ATOM	707	C	MET	A	177	-23.436	-11.475	11.741	38.99	0.00	C
ATOM	708	O	MET	A	177	-24.568	-11.952	11.827	38.99	0.00	O
ATOM	709	N	LEU	A	178	-22.909	-11.065	10.591	39.02	0.00	N
ATOM	710	CA	LEU	A	178	-23.625	-11.202	9.328	39.02	0.00	C
ATOM	711	C	LEU	A	178	-23.839	-12.668	8.973	39.02	0.00	C
ATOM	712	O	LEU	A	178	-24.902	-13.048	8.481	39.02	0.00	O
ATOM	713	N	GLN	A	179	-22.823	-13.487	9.223	51.25	0.00	N
ATOM	714	CA	GLN	A	179	-22.923	-14.923	8.994	51.25	0.00	C
ATOM	715	C	GLN	A	179	-23.858	-15.579	10.001	51.25	0.00	C
ATOM	716	O	GLN	A	179	-24.593	-16.508	9.668	51.25	0.00	O
ATOM	717	N	ASN	A	180	-23.825	-15.089	11.236	45.90	0.00	N
ATOM	718	CA	ASN	A	180	-24.684	-15.614	12.292	45.90	0.00	C
ATOM	719	C	ASN	A	180	-26.139	-15.229	12.060	45.90	0.00	C
ATOM	720	O	ASN	A	180	-27.052	-15.984	12.393	45.90	0.00	O
ATOM	721	N	SER	A	181	-26.349	-14.049	11.486	62.18	0.00	N
ATOM	722	CA	SER	A	181	-27.695	-13.547	11.236	62.18	0.00	C
ATOM	723	C	SER	A	181	-27.768	-12.803	9.909	62.18	0.00	C
ATOM	724	O	SER	A	181	-27.204	-11.718	9.763	62.18	0.00	O
ATOM	725	N	PRO	A	182	-28.465	-13.392	8.943	60.53	0.00	N
ATOM	726	CA	PRO	A	182	-28.622	-12.781	7.629	60.53	0.00	C
ATOM	727	C	PRO	A	182	-29.268	-11.405	7.736	60.53	0.00	C
ATOM	728	O	PRO	A	182	-29.086	-10.553	6.866	60.53	0.00	O
ATOM	729	N	ARG	A	183	-30.025	-11.194	8.808	84.37	0.00	N
ATOM	730	CA	ARG	A	183	-30.759	-9.948	8.995	84.37	0.00	C
ATOM	731	C	ARG	A	183	-29.881	-8.883	9.638	84.37	0.00	C
ATOM	732	O	ARG	A	183	-30.347	-7.786	9.948	84.37	0.00	O

ATOM	733	N	PHE	A	184	-28.610	-9.212	9.838	52.25	0.00	N
ATOM	734	CA	PHE	A	184	-27.642	-8.252	10.354	52.25	0.00	C
ATOM	735	C	PHE	A	184	-27.592	-6.999	9.488	52.25	0.00	C
ATOM	736	O	PHE	A	184	-27.570	-7.083	8.260	52.25	0.00	O
ATOM	737	N	ASN	A	185	-27.576	-5.840	10.134	63.62	0.00	N
ATOM	738	CA	ASN	A	185	-27.545	-4.566	9.424	63.62	0.00	C
ATOM	739	C	ASN	A	185	-26.163	-4.289	8.849	63.62	0.00	C
ATOM	740	O	ASN	A	185	-25.415	-3.464	9.375	63.62	0.00	O
ATOM	741	N	TRP	A	186	-25.827	-4.984	7.767	44.36	0.00	N
ATOM	742	CA	TRP	A	186	-24.536	-4.809	7.114	44.36	0.00	C
ATOM	743	C	TRP	A	186	-24.491	-3.508	6.322	44.36	0.00	C
ATOM	744	O	TRP	A	186	-24.978	-3.441	5.193	44.36	0.00	O
ATOM	745	N	GLU	A	187	-23.903	-2.477	6.919	82.86	0.00	N
ATOM	746	CA	GLU	A	187	-23.773	-1.183	6.262	82.86	0.00	C
ATOM	747	C	GLU	A	187	-22.320	-0.886	5.913	82.86	0.00	C
ATOM	748	O	GLU	A	187	-21.895	0.270	5.912	82.86	0.00	O
ATOM	749	N	CYS	A	188	-21.560	-1.936	5.619	55.08	0.00	N
ATOM	750	CA	CYS	A	188	-20.135	-1.798	5.348	55.08	0.00	C
ATOM	751	C	CYS	A	188	-19.776	-2.376	3.985	55.08	0.00	C
ATOM	752	O	CYS	A	188	-18.698	-2.944	3.805	55.08	0.00	O
ATOM	753	N	LYS	A	189	-20.684	-2.226	3.026	38.40	0.00	N
ATOM	754	CA	LYS	A	189	-20.477	-2.760	1.684	38.40	0.00	C
ATOM	755	C	LYS	A	189	-19.211	-2.193	1.056	38.40	0.00	C
ATOM	756	O	LYS	A	189	-18.490	-2.896	0.349	38.40	0.00	O
ATOM	757	N	TYR	A	190	-18.947	-0.918	1.316	25.73	0.00	N
ATOM	758	CA	TYR	A	190	-17.894	-0.194	0.614	25.73	0.00	C
ATOM	759	C	TYR	A	190	-16.692	0.046	1.519	25.73	0.00	C
ATOM	760	O	TYR	A	190	-16.037	1.085	1.437	25.73	0.00	O
ATOM	761	N	CYS	A	191	-16.407	-0.922	2.384	41.49	0.00	N
ATOM	762	CA	CYS	A	191	-15.184	-0.906	3.177	41.49	0.00	C
ATOM	763	C	CYS	A	191	-14.118	-1.807	2.566	41.49	0.00	C
ATOM	764	O	CYS	A	191	-14.431	-2.746	1.834	41.49	0.00	O
ATOM	765	N	ILE	A	192	-12.859	-1.515	2.868	38.99	0.00	N
ATOM	766	CA	ILE	A	192	-11.739	-2.209	2.244	38.99	0.00	C
ATOM	767	C	ILE	A	192	-11.698	-3.674	2.659	38.99	0.00	C
ATOM	768	O	ILE	A	192	-11.155	-4.517	1.944	38.99	0.00	O
ATOM	769	N	PHE	A	193	-12.277	-3.973	3.817	38.05	0.00	N
ATOM	770	CA	PHE	A	193	-12.291	-5.334	4.339	38.05	0.00	C
ATOM	771	C	PHE	A	193	-13.676	-5.955	4.216	38.05	0.00	C
ATOM	772	O	PHE	A	193	-13.962	-6.984	4.830	38.05	0.00	O
ATOM	773	N	SER	A	194	-14.533	-5.327	3.418	44.71	0.00	N
ATOM	774	CA	SER	A	194	-15.924	-5.748	3.305	44.71	0.00	C
ATOM	775	C	SER	A	194	-16.038	-7.087	2.587	44.71	0.00	C
ATOM	776	O	SER	A	194	-17.053	-7.775	2.692	44.71	0.00	O
ATOM	777	N	VAL	A	195	-14.989	-7.452	1.857	51.78	0.00	N
ATOM	778	CA	VAL	A	195	-14.989	-8.685	1.080	51.78	0.00	C
ATOM	779	C	VAL	A	195	-14.024	-9.706	1.670	51.78	0.00	C
ATOM	780	O	VAL	A	195	-13.720	-10.722	1.044	51.78	0.00	O
ATOM	781	N	ILE	A	196	-13.543	-9.431	2.878	33.86	0.00	N
ATOM	782	CA	ILE	A	196	-12.543	-10.277	3.515	33.86	0.00	C
ATOM	783	C	ILE	A	196	-13.060	-10.846	4.831	33.86	0.00	C
ATOM	784	O	ILE	A	196	-13.620	-10.121	5.653	33.86	0.00	O
ATOM	785	N	CYS	A	197	-12.867	-12.146	5.024	51.61	0.00	N
ATOM	786	CA	CYS	A	197	-13.447	-12.844	6.165	51.61	0.00	C
ATOM	787	C	CYS	A	197	-12.610	-12.638	7.421	51.61	0.00	C
ATOM	788	O	CYS	A	197	-11.436	-12.276	7.344	51.61	0.00	O
ATOM	789	N	PRO	A	198	-13.221	-12.871	8.578	31.41	0.00	N
ATOM	790	CA	PRO	A	198	-12.525	-12.739	9.853	31.41	0.00	C
ATOM	791	C	PRO	A	198	-11.358	-13.715	9.946	31.41	0.00	C
ATOM	792	O	PRO	A	198	-10.437	-13.521	10.739	31.41	0.00	O
ATOM	793	N	ALA	A	199	-11.405	-14.765	9.132	44.28	0.00	N
ATOM	794	CA	ALA	A	199	-10.309	-15.722	9.055	44.28	0.00	C
ATOM	795	C	ALA	A	199	-9.023	-15.052	8.588	44.28	0.00	C
ATOM	796	O	ALA	A	199	-7.925	-15.474	8.950	44.28	0.00	O
ATOM	797	N	LYS	A	200	-9.166	-14.006	7.783	51.19	0.00	N
ATOM	798	CA	LYS	A	200	-8.017	-13.260	7.283	51.19	0.00	C
ATOM	799	C	LYS	A	200	-7.829	-11.958	8.052	51.19	0.00	C
ATOM	800	O	LYS	A	200	-6.725	-11.419	8.117	51.19	0.00	O
ATOM	801	N	LEU	A	201	-8.914	-11.458	8.634	36.97	0.00	N
ATOM	802	CA	LEU	A	201	-8.859	-10.251	9.448	36.97	0.00	C
ATOM	803	C	LEU	A	201	-8.462	-10.573	10.884	36.97	0.00	C
ATOM	804	O	LEU	A	201	-9.279	-10.480	11.800	36.97	0.00	O
ATOM	805	N	THR	A	202	-7.203	-10.952	11.074	47.06	0.00	N
ATOM	806	CA	THR	A	202	-6.689	-11.267	12.401	47.06	0.00	C
ATOM	807	C	THR	A	202	-6.152	-10.021	13.094	47.06	0.00	C
ATOM	808	O	THR	A	202	-6.910	-9.255	13.622	47.06	0.00	O
TER	809		THR	A	202						

ENDMDL  
END

REMARK 1 \*\*\*\*\*  
REMARK 1 Start File NAT\_vs\_DEC1\_dSi\_colored.pdb  
REMARK 1 The occupancy record was modified to represent dSi := Si(DEC)-Si(NAT).  
REMARK 1 Occ=0.00 means dSi=-1.507170 kB; Occ=99.99 means dSi=1.490229 kB.

MODEL  
0

ATOM	1	N	MSE	A	1	23.268	-4.104	-18.521	35.21	0.00	N
ATOM	2	CA	MSE	A	1	23.439	-2.722	-18.016	35.21	0.00	C
ATOM	3	C	MSE	A	1	22.152	-2.161	-17.383	35.21	0.00	C
ATOM	4	O	MSE	A	1	22.147	-1.650	-16.252	35.21	0.00	O
ATOM	5	N	ILE	A	2	21.045	-2.254	-18.100	31.82	0.00	N
ATOM	6	CA	ILE	A	2	19.816	-1.632	-17.608	31.82	0.00	C
ATOM	7	C	ILE	A	2	19.269	-2.405	-16.412	31.82	0.00	C
ATOM	8	O	ILE	A	2	18.935	-1.835	-15.391	31.82	0.00	O



ATOM	9	N	THR	A	3	19.186	-3.703	-16.563	27.55	0.00	N
ATOM	10	CA	THR	A	3	18.718	-4.606	-15.498	27.55	0.00	C
ATOM	11	C	THR	A	3	19.478	-4.398	-14.212	27.55	0.00	C
ATOM	12	O	THR	A	3	18.884	-4.188	-13.150	27.55	0.00	O
ATOM	13	N	GLU	A	4	20.800	-4.447	-14.318	41.92	0.00	N
ATOM	14	CA	GLU	A	4	21.687	-4.148	-13.195	41.92	0.00	C
ATOM	15	C	GLU	A	4	21.342	-2.832	-12.484	41.92	0.00	C
ATOM	16	O	GLU	A	4	21.232	-2.791	-11.242	41.92	0.00	O
ATOM	17	N	PHE	A	5	21.133	-1.765	-13.247	41.07	0.00	N
ATOM	18	CA	PHE	A	5	20.826	-0.486	-12.602	41.07	0.00	C
ATOM	19	C	PHE	A	5	19.486	-0.520	-11.886	41.07	0.00	C
ATOM	20	O	PHE	A	5	19.415	-0.122	-10.736	41.07	0.00	O
ATOM	21	N	LEU	A	6	18.429	-1.039	-12.529	17.98	0.00	N
ATOM	22	CA	LEU	A	6	17.100	-1.072	-11.873	17.98	0.00	C
ATOM	23	C	LEU	A	6	17.119	-1.921	-10.586	17.98	0.00	C
ATOM	24	O	LEU	A	6	16.551	-1.545	-9.531	17.98	0.00	O
ATOM	25	N	LEU	A	7	17.767	-3.071	-10.672	29.60	0.00	N
ATOM	26	CA	LEU	A	7	17.843	-3.929	-9.486	29.60	0.00	C
ATOM	27	C	LEU	A	7	18.603	-3.241	-8.341	29.60	0.00	C
ATOM	28	O	LEU	A	7	18.190	-3.292	-7.184	29.60	0.00	O
ATOM	29	N	LYS	A	8	19.691	-2.566	-8.693	47.82	0.00	N
ATOM	30	CA	LYS	A	8	20.463	-1.856	-7.680	47.82	0.00	C
ATOM	31	C	LYS	A	8	19.628	-0.762	-7.044	47.82	0.00	C
ATOM	32	O	LYS	A	8	19.527	-0.688	-5.819	47.82	0.00	O
ATOM	33	N	LYS	A	9	18.947	0.036	-7.860	30.34	0.00	N
ATOM	34	CA	LYS	A	9	18.144	1.113	-7.292	30.34	0.00	C
ATOM	35	C	LYS	A	9	17.009	0.545	-6.471	30.34	0.00	C
ATOM	36	O	LYS	A	9	16.708	1.086	-5.402	30.34	0.00	O
ATOM	37	N	LYS	A	10	16.379	-0.547	-6.912	26.27	0.00	N
ATOM	38	CA	LYS	A	10	15.262	-1.072	-6.116	26.27	0.00	C
ATOM	39	C	LYS	A	10	15.660	-1.681	-4.726	26.27	0.00	C
ATOM	40	O	LYS	A	10	14.931	-1.547	-3.695	26.27	0.00	O
ATOM	41	N	LEU	A	11	16.798	-2.366	-4.699	25.05	0.00	N
ATOM	42	CA	LEU	A	11	17.328	-2.879	-3.411	25.05	0.00	C
ATOM	43	C	LEU	A	11	17.613	-1.686	-2.439	25.05	0.00	C
ATOM	44	O	LEU	A	11	17.179	-1.698	-1.270	25.05	0.00	O
ATOM	45	N	GLU	A	12	18.299	-0.655	-2.945	18.67	0.00	N
ATOM	46	CA	GLU	A	12	18.475	0.605	-2.181	18.67	0.00	C
ATOM	47	C	GLU	A	12	17.179	1.213	-1.616	18.67	0.00	C
ATOM	48	O	GLU	A	12	17.048	1.390	-0.426	18.67	0.00	O
ATOM	49	N	GLU	A	13	16.225	1.536	-2.461	0.00	0.00	N
ATOM	50	CA	GLU	A	13	14.901	1.950	-1.974	0.00	0.00	C
ATOM	51	C	GLU	A	13	14.358	1.037	-0.868	0.00	0.00	C
ATOM	52	O	GLU	A	13	13.966	1.505	0.190	0.00	0.00	O
ATOM	53	N	HIS	A	14	14.335	-0.267	-1.101	18.87	0.00	N
ATOM	54	CA	HIS	A	14	13.794	-1.199	-0.106	18.87	0.00	C
ATOM	55	C	HIS	A	14	14.560	-1.126	1.236	18.87	0.00	C
ATOM	56	O	HIS	A	14	13.970	-1.122	2.322	18.87	0.00	O
ATOM	57	N	LEU	A	15	15.884	-1.079	1.145	29.94	0.00	N
ATOM	58	CA	LEU	A	15	16.750	-1.011	2.322	29.94	0.00	C
ATOM	59	C	LEU	A	15	16.724	0.377	2.988	29.94	0.00	C
ATOM	60	O	LEU	A	15	17.114	0.492	4.140	29.94	0.00	O
ATOM	61	N	SER	A	16	16.283	1.421	2.277	29.27	0.00	N
ATOM	62	CA	SER	A	16	16.215	2.761	2.870	29.27	0.00	C
ATOM	63	C	SER	A	16	15.126	2.866	3.937	29.27	0.00	C
ATOM	64	O	SER	A	16	15.184	3.766	4.746	29.27	0.00	O
ATOM	65	N	HIS	A	17	14.126	1.987	3.905	26.74	0.00	N
ATOM	66	CA	HIS	A	17	12.931	2.175	4.710	26.74	0.00	C
ATOM	67	C	HIS	A	17	12.911	1.290	5.925	26.74	0.00	C
ATOM	68	O	HIS	A	17	12.211	0.285	5.939	26.74	0.00	O
ATOM	69	N	VAL	A	18	13.667	1.662	6.952	28.01	0.00	N
ATOM	70	CA	VAL	A	18	13.649	0.930	8.226	28.01	0.00	C
ATOM	71	C	VAL	A	18	12.455	1.416	9.073	28.01	0.00	C
ATOM	72	O	VAL	A	18	12.231	2.619	9.198	28.01	0.00	O
ATOM	73	N	LYS	A	19	11.711	0.480	9.654	25.89	0.00	N
ATOM	74	CA	LYS	A	19	10.394	0.738	10.251	25.89	0.00	C
ATOM	75	C	LYS	A	19	10.466	0.797	11.779	25.89	0.00	C
ATOM	76	O	LYS	A	19	11.024	-0.102	12.394	25.89	0.00	O
ATOM	77	N	GLU	A	20	9.892	1.832	12.391	38.34	0.00	N
ATOM	78	CA	GLU	A	20	10.003	2.007	13.848	38.34	0.00	C
ATOM	79	C	GLU	A	20	8.986	1.178	14.597	38.34	0.00	C
ATOM	80	O	GLU	A	20	7.952	0.808	14.049	38.34	0.00	O
ATOM	81	N	GLU	A	21	9.300	0.899	15.861	52.27	0.00	N
ATOM	82	CA	GLU	A	21	8.634	-0.168	16.607	52.27	0.00	C
ATOM	83	C	GLU	A	21	7.153	0.124	16.844	52.27	0.00	C
ATOM	84	O	GLU	A	21	6.369	-0.811	17.040	52.27	0.00	O
ATOM	85	N	ASN	A	22	6.774	1.399	16.808	45.69	0.00	N
ATOM	86	CA	ASN	A	22	5.371	1.790	16.970	45.69	0.00	C
ATOM	87	C	ASN	A	22	4.716	2.391	15.715	45.69	0.00	C
ATOM	88	O	ASN	A	22	3.648	3.000	15.824	45.69	0.00	O
ATOM	89	N	THR	A	23	5.339	2.269	14.540	71.65	0.00	N
ATOM	90	CA	THR	A	23	4.636	2.674	13.297	71.65	0.00	C
ATOM	91	C	THR	A	23	3.937	1.492	12.597	71.65	0.00	C
ATOM	92	O	THR	A	23	4.343	0.315	12.707	71.65	0.00	O
ATOM	93	N	ILE	A	24	2.863	1.841	11.907	76.27	0.00	N
ATOM	94	CA	ILE	A	24	2.133	0.908	11.089	76.27	0.00	C
ATOM	95	C	ILE	A	24	1.893	1.588	9.781	76.27	0.00	C
ATOM	96	O	ILE	A	24	1.270	2.646	9.760	76.27	0.00	O
ATOM	97	N	TYR	A	25	2.393	1.015	8.691	61.46	0.00	N
ATOM	98	CA	TYR	A	25	2.072	1.558	7.393	61.46	0.00	C
ATOM	99	C	TYR	A	25	0.609	1.246	7.051	61.46	0.00	C
ATOM	100	O	TYR	A	25	0.029	0.273	7.510	61.46	0.00	O

ATOM	101	N	VAL	A	26	0.019	2.088	6.230	76.75	0.00	N
ATOM	102	CA	VAL	A	26	-1.326	1.856	5.716	76.75	0.00	C
ATOM	103	C	VAL	A	26	-1.394	0.504	4.989	76.75	0.00	C
ATOM	104	O	VAL	A	26	-2.320	-0.244	5.138	76.75	0.00	O
ATOM	105	N	THR	A	27	-0.413	0.264	4.153	59.89	0.00	N
ATOM	106	CA	THR	A	27	-0.225	-0.940	3.432	59.89	0.00	C
ATOM	107	C	THR	A	27	-0.214	-2.155	4.325	59.89	0.00	C
ATOM	108	O	THR	A	27	-0.816	-3.189	4.005	59.89	0.00	O
ATOM	109	N	ASP	A	28	0.421	-2.066	5.476	62.29	0.00	N
ATOM	110	CA	ASP	A	28	0.217	-3.125	6.447	62.29	0.00	C
ATOM	111	C	ASP	A	28	-1.221	-3.366	6.899	62.29	0.00	C
ATOM	112	O	ASP	A	28	-1.560	-4.494	7.172	62.29	0.00	O
ATOM	113	N	LEU	A	29	-2.082	-2.355	6.958	78.11	0.00	N
ATOM	114	CA	LEU	A	29	-3.418	-2.565	7.521	78.11	0.00	C
ATOM	115	C	LEU	A	29	-4.304	-3.447	6.637	78.11	0.00	C
ATOM	116	O	LEU	A	29	-5.335	-3.962	7.065	78.11	0.00	O
ATOM	117	N	VAL	A	30	-3.930	-3.597	5.378	60.79	0.00	N
ATOM	118	CA	VAL	A	30	-4.776	-4.325	4.449	60.79	0.00	C
ATOM	119	C	VAL	A	30	-4.099	-5.619	4.014	60.79	0.00	C
ATOM	120	O	VAL	A	30	-4.413	-6.174	2.971	60.79	0.00	O
ATOM	121	N	ARG	A	31	-3.154	-6.069	4.828	99.99	0.00	N
ATOM	122	CA	ARG	A	31	-2.426	-7.287	4.613	99.99	0.00	C
ATOM	123	C	ARG	A	31	-2.433	-8.174	5.834	99.99	0.00	C
ATOM	124	O	ARG	A	31	-2.927	-7.806	6.907	99.99	0.00	O
ATOM	125	N	CYS	A	32	-1.955	-9.395	5.616	67.03	0.00	N
ATOM	126	CA	CYS	A	32	-1.910	-10.426	6.637	67.03	0.00	C
ATOM	127	C	CYS	A	32	-1.015	-9.951	7.770	67.03	0.00	C
ATOM	128	O	CYS	A	32	0.134	-9.567	7.534	67.03	0.00	O
ATOM	129	N	PRO	A	33	-1.508	-10.024	8.999	50.80	0.00	N
ATOM	130	CA	PRO	A	33	-0.664	-9.610	10.083	50.80	0.00	C
ATOM	131	C	PRO	A	33	0.611	-10.429	10.223	50.80	0.00	C
ATOM	132	O	PRO	A	33	1.694	-9.852	10.411	50.80	0.00	O
ATOM	133	N	ARG	A	34	0.512	-11.757	10.119	19.13	0.00	N
ATOM	134	CA	ARG	A	34	1.689	-12.574	10.256	19.13	0.00	C
ATOM	135	C	ARG	A	34	2.720	-12.198	9.218	19.13	0.00	C
ATOM	136	O	ARG	A	34	3.911	-12.267	9.453	19.13	0.00	O
ATOM	137	N	ARG	A	35	2.276	-11.837	8.033	22.35	0.00	N
ATOM	138	CA	ARG	A	35	3.238	-11.530	6.965	22.35	0.00	C
ATOM	139	C	ARG	A	35	3.971	-10.221	7.251	22.35	0.00	C
ATOM	140	O	ARG	A	35	5.151	-10.042	6.901	22.35	0.00	O
ATOM	141	N	VAL	A	36	3.228	-9.297	7.848	50.49	0.00	N
ATOM	142	CA	VAL	A	36	3.791	-7.981	8.175	50.49	0.00	C
ATOM	143	C	VAL	A	36	4.864	-8.200	9.230	50.49	0.00	C
ATOM	144	O	VAL	A	36	5.972	-7.734	9.085	50.49	0.00	O
ATOM	145	N	ARG	A	37	4.561	-8.972	10.259	50.75	0.00	N
ATOM	146	CA	ARG	A	37	5.600	-9.259	11.227	50.75	0.00	C
ATOM	147	C	ARG	A	37	6.749	-10.045	10.630	50.75	0.00	C
ATOM	148	O	ARG	A	37	7.879	-9.890	11.061	50.75	0.00	O
ATOM	149	N	TYR	A	38	6.481	-10.904	9.649	51.51	0.00	N
ATOM	150	CA	TYR	A	38	7.570	-11.660	9.036	51.51	0.00	C
ATOM	151	C	TYR	A	38	8.499	-10.724	8.363	51.51	0.00	C
ATOM	152	O	TYR	A	38	9.689	-10.942	8.377	51.51	0.00	O
ATOM	153	N	GLU	A	39	7.963	-9.678	7.760	73.67	0.00	N
ATOM	154	CA	GLU	A	39	8.816	-8.667	7.126	73.67	0.00	C
ATOM	155	C	GLU	A	39	9.769	-7.904	8.077	73.67	0.00	C
ATOM	156	O	GLU	A	39	10.773	-7.394	7.597	73.67	0.00	O
ATOM	157	N	SER	A	40	9.464	-7.844	9.380	55.15	0.00	N
ATOM	158	CA	SER	A	40	10.398	-7.338	10.412	55.15	0.00	C
ATOM	159	C	SER	A	40	11.345	-8.393	10.958	55.15	0.00	C
ATOM	160	O	SER	A	40	12.540	-8.130	11.114	55.15	0.00	O
ATOM	161	N	GLU	A	41	10.808	-9.578	11.263	47.58	0.00	N
ATOM	162	CA	GLU	A	41	11.604	-10.637	11.865	47.58	0.00	C
ATOM	163	C	GLU	A	41	12.456	-11.415	10.889	47.58	0.00	C
ATOM	164	O	GLU	A	41	13.321	-12.135	11.370	47.58	0.00	O
ATOM	165	N	TYR	A	42	12.238	-11.336	9.566	46.48	0.00	N
ATOM	166	CA	TYR	A	42	13.052	-12.135	8.586	46.48	0.00	C
ATOM	167	C	TYR	A	42	13.369	-11.290	7.378	46.48	0.00	C
ATOM	168	O	TYR	A	42	13.024	-11.599	6.196	46.48	0.00	O
ATOM	169	N	LYS	A	43	14.059	-10.210	7.691	61.04	0.00	N
ATOM	170	CA	LYS	A	43	14.286	-9.169	6.756	61.04	0.00	C
ATOM	171	C	LYS	A	43	15.175	-9.664	5.651	61.04	0.00	C
ATOM	172	O	LYS	A	43	15.118	-9.127	4.534	61.04	0.00	O
ATOM	173	N	GLU	A	44	16.024	-10.635	5.936	57.96	0.00	N
ATOM	174	CA	GLU	A	44	16.906	-11.087	4.887	57.96	0.00	C
ATOM	175	C	GLU	A	44	16.077	-11.799	3.791	57.96	0.00	C
ATOM	176	O	GLU	A	44	16.309	-11.615	2.572	57.96	0.00	O
ATOM	177	N	LEU	A	45	15.070	-12.551	4.234	52.74	0.00	N
ATOM	178	CA	LEU	A	45	14.177	-13.244	3.311	52.74	0.00	C
ATOM	179	C	LEU	A	45	13.268	-12.185	2.642	52.74	0.00	C
ATOM	180	O	LEU	A	45	13.095	-12.177	1.406	52.74	0.00	O
ATOM	181	N	ALA	A	46	12.710	-11.278	3.448	72.00	0.00	N
ATOM	182	CA	ALA	A	46	11.893	-10.178	2.897	72.00	0.00	C
ATOM	183	C	ALA	A	46	12.519	-9.534	1.649	72.00	0.00	C
ATOM	184	O	ALA	A	46	11.825	-9.262	0.709	72.00	0.00	O
ATOM	185	N	ILE	A	47	13.830	-9.341	1.634	59.42	0.00	N
ATOM	186	CA	ILE	A	47	14.526	-8.691	0.538	59.42	0.00	C
ATOM	187	C	ILE	A	47	14.299	-9.332	-0.838	59.42	0.00	C
ATOM	188	O	ILE	A	47	14.451	-8.669	-1.895	59.42	0.00	O
ATOM	189	N	SER	A	48	13.959	-10.620	-0.874	66.56	0.00	N
ATOM	190	CA	SER	A	48	13.715	-11.277	-2.169	66.56	0.00	C
ATOM	191	C	SER	A	48	12.509	-10.666	-2.882	66.56	0.00	C
ATOM	192	O	SER	A	48	12.401	-10.723	-4.108	66.56	0.00	O

ATOM	193	N	GLN	A	49	11.610	-10.068	-2.123	62.34	0.00	N
ATOM	194	CA	GLN	A	49	10.459	-9.434	-2.743	62.34	0.00	C
ATOM	195	C	GLN	A	49	10.847	-8.226	-3.623	62.34	0.00	C
ATOM	196	O	GLN	A	49	10.116	-7.889	-4.482	62.34	0.00	O
ATOM	197	N	VAL	A	50	12.031	-7.643	-3.424	62.33	0.00	N
ATOM	198	CA	VAL	A	50	12.659	-6.700	-4.358	62.33	0.00	C
ATOM	199	C	VAL	A	50	12.750	-7.176	-5.802	62.33	0.00	C
ATOM	200	O	VAL	A	50	12.805	-6.373	-6.754	62.33	0.00	O
ATOM	201	N	TYR	A	51	12.865	-8.468	-5.991	23.81	0.00	N
ATOM	202	CA	TYR	A	51	13.231	-8.953	-7.306	23.81	0.00	C
ATOM	203	C	TYR	A	51	12.000	-9.515	-8.013	23.81	0.00	C
ATOM	204	O	TYR	A	51	12.116	-10.179	-9.031	23.81	0.00	O
ATOM	205	N	ALA	A	52	10.823	-9.258	-7.445	43.17	0.00	N
ATOM	206	CA	ALA	A	52	9.580	-9.586	-8.075	43.17	0.00	C
ATOM	207	C	ALA	A	52	9.375	-8.694	-9.336	43.17	0.00	C
ATOM	208	O	ALA	A	52	9.152	-7.478	-9.216	43.17	0.00	O
ATOM	209	N	PRO	A	53	9.401	-9.282	-10.541	43.74	0.00	N
ATOM	210	CA	PRO	A	53	9.338	-8.519	-11.804	43.74	0.00	C
ATOM	211	C	PRO	A	53	8.051	-7.715	-11.969	43.74	0.00	C
ATOM	212	O	PRO	A	53	8.107	-6.662	-12.589	43.74	0.00	O
ATOM	213	N	SER	A	54	6.912	-8.185	-11.428	38.09	0.00	N
ATOM	214	CA	SER	A	54	5.662	-7.382	-11.372	38.09	0.00	C
ATOM	215	C	SER	A	54	5.807	-6.143	-10.551	38.09	0.00	C
ATOM	216	O	SER	A	54	5.159	-5.116	-10.806	38.09	0.00	O
ATOM	217	N	ALA	A	55	6.666	-6.210	-9.534	38.71	0.00	N
ATOM	218	CA	ALA	A	55	6.871	-5.023	-8.707	38.71	0.00	C
ATOM	219	C	ALA	A	55	7.756	-4.055	-9.490	38.71	0.00	C
ATOM	220	O	ALA	A	55	7.598	-2.860	-9.403	38.71	0.00	O
ATOM	221	N	ILE	A	56	8.662	-4.543	-10.314	47.01	0.00	N
ATOM	222	CA	ILE	A	56	9.562	-3.610	-11.005	47.01	0.00	C
ATOM	223	C	ILE	A	56	8.724	-2.964	-12.115	47.01	0.00	C
ATOM	224	O	ILE	A	56	8.790	-1.755	-12.348	47.01	0.00	O
ATOM	225	N	LEU	A	57	7.912	-3.805	-12.760	30.78	0.00	N
ATOM	226	CA	LEU	A	57	6.935	-3.366	-13.747	30.78	0.00	C
ATOM	227	C	LEU	A	57	6.033	-2.336	-13.087	30.78	0.00	C
ATOM	228	O	LEU	A	57	5.874	-1.207	-13.590	30.78	0.00	O
ATOM	229	N	GLY	A	58	5.483	-2.701	-11.946	41.70	0.00	N
ATOM	230	CA	GLY	A	58	4.634	-1.806	-11.182	41.70	0.00	C
ATOM	231	C	GLY	A	58	5.258	-0.473	-10.875	41.70	0.00	C
ATOM	232	O	GLY	A	58	4.607	0.560	-11.036	41.70	0.00	O
ATOM	233	N	ASP	A	59	6.514	-0.439	-10.443	47.60	0.00	N
ATOM	234	CA	ASP	A	59	7.150	0.844	-10.105	47.60	0.00	C
ATOM	235	C	ASP	A	59	7.486	1.775	-11.275	47.60	0.00	C
ATOM	236	O	ASP	A	59	7.461	2.943	-11.121	47.60	0.00	O
ATOM	237	N	ILE	A	60	7.874	1.212	-12.405	48.47	0.00	N
ATOM	238	CA	ILE	A	60	8.072	1.923	-13.651	48.47	0.00	C
ATOM	239	C	ILE	A	60	6.774	2.586	-14.133	48.47	0.00	C
ATOM	240	O	ILE	A	60	6.798	3.761	-14.559	48.47	0.00	O
ATOM	241	N	LEU	A	61	5.641	1.870	-14.058	35.67	0.00	N
ATOM	242	CA	LEU	A	61	4.334	2.454	-14.392	35.67	0.00	C
ATOM	243	C	LEU	A	61	4.024	3.653	-13.537	35.67	0.00	C
ATOM	244	O	LEU	A	61	3.668	4.678	-14.050	35.67	0.00	O
ATOM	245	N	HIS	A	62	4.172	3.508	-12.232	37.96	0.00	N
ATOM	246	CA	HIS	A	62	3.968	4.616	-11.306	37.96	0.00	C
ATOM	247	C	HIS	A	62	4.884	5.714	-11.684	37.96	0.00	C
ATOM	248	O	HIS	A	62	4.443	6.854	-11.841	37.96	0.00	O
ATOM	249	N	LEU	A	63	6.158	5.423	-11.888	34.78	0.00	N
ATOM	250	CA	LEU	A	63	7.034	6.526	-12.325	34.78	0.00	C
ATOM	251	C	LEU	A	63	6.405	7.217	-13.537	34.78	0.00	C
ATOM	252	O	LEU	A	63	6.167	8.394	-13.497	34.78	0.00	O
ATOM	253	N	GLY	A	64	6.109	6.499	-14.603	36.31	0.00	N
ATOM	254	CA	GLY	A	64	5.719	7.158	-15.811	36.31	0.00	C
ATOM	255	C	GLY	A	64	4.400	7.890	-15.740	36.31	0.00	C
ATOM	256	O	GLY	A	64	4.174	8.755	-16.509	36.31	0.00	O
ATOM	257	N	LEU	A	65	3.499	7.454	-14.886	17.94	0.00	N
ATOM	258	CA	LEU	A	65	2.129	7.928	-14.922	17.94	0.00	C
ATOM	259	C	LEU	A	65	2.136	9.075	-13.968	17.94	0.00	C
ATOM	260	O	LEU	A	65	1.699	10.153	-14.266	17.94	0.00	O
ATOM	261	N	GLU	A	66	2.672	8.845	-12.789	54.01	0.00	N
ATOM	262	CA	GLU	A	66	3.061	9.970	-11.943	54.01	0.00	C
ATOM	263	C	GLU	A	66	3.702	11.154	-12.688	54.01	0.00	C
ATOM	264	O	GLU	A	66	3.297	12.272	-12.436	54.01	0.00	O
ATOM	265	N	SER	A	67	4.665	10.981	-13.581	46.40	0.00	N
ATOM	266	CA	SER	A	67	5.183	12.221	-14.250	46.40	0.00	C
ATOM	267	C	SER	A	67	4.100	13.012	-15.067	46.40	0.00	C
ATOM	268	O	SER	A	67	4.182	14.248	-15.203	46.40	0.00	O
ATOM	269	N	VAL	A	68	3.091	12.293	-15.600	51.69	0.00	N
ATOM	270	CA	VAL	A	68	1.939	12.934	-16.238	51.69	0.00	C
ATOM	271	C	VAL	A	68	1.158	13.773	-15.231	51.69	0.00	C
ATOM	272	O	VAL	A	68	0.645	14.865	-15.520	51.69	0.00	O
ATOM	273	N	LEU	A	69	1.040	13.216	-14.047	50.04	0.00	N
ATOM	274	CA	LEU	A	69	0.261	13.818	-13.004	50.04	0.00	C
ATOM	275	C	LEU	A	69	0.848	15.118	-12.430	50.04	0.00	C
ATOM	276	O	LEU	A	69	0.134	15.992	-11.952	50.04	0.00	O
ATOM	277	N	LYS	A	70	2.165	15.215	-12.445	52.71	0.00	N
ATOM	278	CA	LYS	A	70	2.860	16.356	-11.911	52.71	0.00	C
ATOM	279	C	LYS	A	70	2.708	17.450	-12.934	52.71	0.00	C
ATOM	280	O	LYS	A	70	2.497	18.596	-12.562	52.71	0.00	O
ATOM	281	N	GLY	A	71	2.769	17.105	-14.229	49.67	0.00	N
ATOM	282	CA	GLY	A	71	2.550	18.111	-15.305	49.67	0.00	C
ATOM	283	C	GLY	A	71	1.130	18.685	-15.376	49.67	0.00	C
ATOM	284	O	GLY	A	71	0.821	19.815	-14.923	49.67	0.00	O

ATOM	285	N	ASN	A	72	0.217	17.876	-15.876	49.24	0.00	N
ATOM	286	CA	ASN	A	72	-1.095	18.370	-16.206	49.24	0.00	C
ATOM	287	C	ASN	A	72	-2.040	18.612	-15.074	49.24	0.00	C
ATOM	288	O	ASN	A	72	-2.921	19.420	-15.211	49.24	0.00	O
ATOM	289	N	PHE	A	73	-1.880	17.933	-13.966	43.22	0.00	N
ATOM	290	CA	PHE	A	73	-2.766	18.118	-12.847	43.22	0.00	C
ATOM	291	C	PHE	A	73	-2.091	18.771	-11.639	43.22	0.00	C
ATOM	292	O	PHE	A	73	-2.674	18.861	-10.593	43.22	0.00	O
ATOM	293	N	ASN	A	74	-0.838	19.166	-11.735	60.11	0.00	N
ATOM	294	CA	ASN	A	74	-0.201	19.781	-10.582	60.11	0.00	C
ATOM	295	C	ASN	A	74	-0.355	18.949	-9.279	60.11	0.00	C
ATOM	296	O	ASN	A	74	-0.590	19.474	-8.165	60.11	0.00	O
ATOM	297	N	ALA	A	75	-0.160	17.641	-9.414	54.45	0.00	N
ATOM	298	CA	ALA	A	75	-0.115	16.792	-8.245	54.45	0.00	C
ATOM	299	C	ALA	A	75	1.282	16.777	-7.622	54.45	0.00	C
ATOM	300	O	ALA	A	75	2.270	16.992	-8.289	54.45	0.00	O
ATOM	301	N	GLU	A	76	1.336	16.530	-6.332	56.74	0.00	N
ATOM	302	CA	GLU	A	76	2.559	16.069	-5.695	56.74	0.00	C
ATOM	303	C	GLU	A	76	2.544	14.546	-5.834	56.74	0.00	C
ATOM	304	O	GLU	A	76	1.466	13.957	-5.865	56.74	0.00	O
ATOM	305	N	THR	A	77	3.710	13.915	-5.909	71.61	0.00	N
ATOM	306	CA	THR	A	77	3.794	12.484	-6.087	71.61	0.00	C
ATOM	307	C	THR	A	77	4.639	11.898	-4.978	71.61	0.00	C
ATOM	308	O	THR	A	77	5.510	12.566	-4.500	71.61	0.00	O
ATOM	309	N	GLU	A	78	4.321	10.666	-4.562	74.39	0.00	N
ATOM	310	CA	GLU	A	78	4.988	9.920	-3.517	74.39	0.00	C
ATOM	311	C	GLU	A	78	5.020	10.703	-2.232	74.39	0.00	C
ATOM	312	O	GLU	A	78	6.063	10.936	-1.623	74.39	0.00	O
ATOM	313	N	VAL	A	79	3.826	11.074	-1.816	55.67	0.00	N
ATOM	314	CA	VAL	A	79	3.635	12.010	-0.767	55.67	0.00	C
ATOM	315	C	VAL	A	79	3.474	11.303	0.544	55.67	0.00	C
ATOM	316	O	VAL	A	79	2.510	10.573	0.774	55.67	0.00	O
ATOM	317	N	GLU	A	80	4.416	11.580	1.421	51.09	0.00	N
ATOM	318	CA	GLU	A	80	4.530	10.857	2.668	51.09	0.00	C
ATOM	319	C	GLU	A	80	3.901	11.655	3.780	51.09	0.00	C
ATOM	320	O	GLU	A	80	4.090	12.840	3.853	51.09	0.00	O
ATOM	321	N	THR	A	81	3.177	11.027	4.670	43.26	0.00	N
ATOM	322	CA	THR	A	81	2.510	11.744	5.761	43.26	0.00	C
ATOM	323	C	THR	A	81	2.133	10.811	6.884	43.26	0.00	C
ATOM	324	O	THR	A	81	2.164	9.597	6.754	43.26	0.00	O
ATOM	325	N	LEU	A	82	1.667	11.373	7.976	50.29	0.00	N
ATOM	326	CA	LEU	A	82	1.644	10.601	9.202	50.29	0.00	C
ATOM	327	C	LEU	A	82	0.492	11.060	10.035	50.29	0.00	C
ATOM	328	O	LEU	A	82	0.098	12.203	9.950	50.29	0.00	O
ATOM	329	N	ARG	A	83	-0.124	10.141	10.761	18.69	0.00	N
ATOM	330	CA	ARG	A	83	-1.328	10.449	11.518	18.69	0.00	C
ATOM	331	C	ARG	A	83	-1.368	9.467	12.659	18.69	0.00	C
ATOM	332	O	ARG	A	83	-0.926	8.327	12.512	18.69	0.00	O
ATOM	333	N	GLU	A	84	-1.873	9.890	13.809	14.28	0.00	N
ATOM	334	CA	GLU	A	84	-1.727	9.022	14.978	14.28	0.00	C
ATOM	335	C	GLU	A	84	-3.042	8.425	15.425	14.28	0.00	C
ATOM	336	O	GLU	A	84	-4.110	8.996	15.183	14.28	0.00	O
ATOM	337	N	ILE	A	85	-2.918	7.275	16.095	56.26	0.00	N
ATOM	338	CA	ILE	A	85	-4.029	6.451	16.449	56.26	0.00	C
ATOM	339	C	ILE	A	85	-3.781	5.841	17.813	56.26	0.00	C
ATOM	340	O	ILE	A	85	-2.643	5.507	18.123	56.26	0.00	O
ATOM	341	N	ASN	A	86	-4.840	5.701	18.619	40.06	0.00	N
ATOM	342	CA	ASN	A	86	-4.761	5.021	19.937	40.06	0.00	C
ATOM	343	C	ASN	A	86	-5.250	3.566	19.895	40.06	0.00	C
ATOM	344	O	ASN	A	86	-6.399	3.293	19.511	40.06	0.00	O
ATOM	345	N	VAL	A	87	-4.383	2.645	20.322	50.74	0.00	N
ATOM	346	CA	VAL	A	87	-4.703	1.227	20.308	50.74	0.00	C
ATOM	347	C	VAL	A	87	-4.355	0.547	21.630	50.74	0.00	C
ATOM	348	O	VAL	A	87	-3.230	0.067	21.819	50.74	0.00	O
ATOM	349	N	GLY	A	88	-5.321	0.484	22.542	49.52	0.00	N
ATOM	350	CA	GLY	A	88	-5.066	-0.115	23.865	49.52	0.00	C
ATOM	351	C	GLY	A	88	-4.192	0.803	24.708	49.52	0.00	C
ATOM	352	O	GLY	A	88	-3.216	0.373	25.351	49.52	0.00	O
ATOM	353	N	GLY	A	89	-4.538	2.089	24.663	48.06	0.00	N
ATOM	354	CA	GLY	A	89	-3.780	3.124	25.348	48.06	0.00	C
ATOM	355	C	GLY	A	89	-2.339	3.328	24.890	48.06	0.00	C
ATOM	356	O	GLY	A	89	-1.668	4.231	25.406	48.06	0.00	O
ATOM	357	N	LYS	A	90	-1.846	2.502	23.956	49.69	0.00	N
ATOM	358	CA	LYS	A	90	-0.547	2.733	23.318	49.69	0.00	C
ATOM	359	C	LYS	A	90	-0.830	3.651	22.138	49.69	0.00	C
ATOM	360	O	LYS	A	90	-1.881	3.541	21.497	49.69	0.00	O
ATOM	361	N	VAL	A	91	0.069	4.592	21.872	50.28	0.00	N
ATOM	362	CA	VAL	A	91	-0.106	5.503	20.744	50.28	0.00	C
ATOM	363	C	VAL	A	91	0.675	4.963	19.561	50.28	0.00	C
ATOM	364	O	VAL	A	91	1.817	4.523	19.727	50.28	0.00	O
ATOM	365	N	TYR	A	92	0.052	5.005	18.377	61.33	0.00	N
ATOM	366	CA	TYR	A	92	0.676	4.480	17.190	61.33	0.00	C
ATOM	367	C	TYR	A	92	0.645	5.490	16.087	61.33	0.00	C
ATOM	368	O	TYR	A	92	-0.329	6.191	15.893	61.33	0.00	O
ATOM	369	N	LYS	A	93	1.747	5.547	15.371	75.56	0.00	N
ATOM	370	CA	LYS	A	93	1.859	6.412	14.217	75.56	0.00	C
ATOM	371	C	LYS	A	93	1.524	5.603	12.955	75.56	0.00	C
ATOM	372	O	LYS	A	93	2.270	4.714	12.581	75.56	0.00	O
ATOM	373	N	ILE	A	94	0.406	5.927	12.320	54.38	0.00	N
ATOM	374	CA	ILE	A	94	0.084	5.372	11.038	54.38	0.00	C
ATOM	375	C	ILE	A	94	0.743	6.184	9.929	54.38	0.00	C
ATOM	376	O	ILE	A	94	0.556	7.385	9.807	54.38	0.00	O

ATOM	377	N	LYS	A	95	1.497	5.507	9.097	65.40	0.00	N
ATOM	378	CA	LYS	A	95	2.305	6.166	8.106	65.40	0.00	C
ATOM	379	C	LYS	A	95	1.950	5.702	6.699	65.40	0.00	C
ATOM	380	O	LYS	A	95	1.760	4.545	6.470	65.40	0.00	O
ATOM	381	N	GLY	A	96	1.853	6.613	5.743	50.04	0.00	N
ATOM	382	CA	GLY	A	96	1.572	6.242	4.383	50.04	0.00	C
ATOM	383	C	GLY	A	96	2.142	7.179	3.378	50.04	0.00	C
ATOM	384	O	GLY	A	96	2.537	8.280	3.703	50.04	0.00	O
ATOM	385	N	ARG	A	97	2.107	6.740	2.138	43.71	0.00	N
ATOM	386	CA	ARG	A	97	2.693	7.428	1.007	43.71	0.00	C
ATOM	387	C	ARG	A	97	1.769	7.206	-0.178	43.71	0.00	C
ATOM	388	O	ARG	A	97	1.672	6.084	-0.699	43.71	0.00	O
ATOM	389	N	ALA	A	98	1.104	8.281	-0.588	45.35	0.00	N
ATOM	390	CA	ALA	A	98	0.117	8.243	-1.592	45.35	0.00	C
ATOM	391	C	ALA	A	98	0.862	8.383	-2.906	45.35	0.00	C
ATOM	392	O	ALA	A	98	1.855	9.097	-3.010	45.35	0.00	O
ATOM	393	N	ASP	A	99	0.424	7.673	-3.912	52.70	0.00	N
ATOM	394	CA	ASP	A	99	1.076	7.754	-5.196	52.70	0.00	C
ATOM	395	C	ASP	A	99	0.974	9.188	-5.720	52.70	0.00	C
ATOM	396	O	ASP	A	99	1.922	9.707	-6.350	52.70	0.00	O
ATOM	397	N	ALA	A	100	-0.166	9.846	-5.513	56.40	0.00	N
ATOM	398	CA	ALA	A	100	-0.251	11.269	-5.953	56.40	0.00	C
ATOM	399	C	ALA	A	100	-1.290	11.992	-5.184	56.40	0.00	C
ATOM	400	O	ALA	A	100	-2.232	11.366	-4.731	56.40	0.00	O
ATOM	401	N	ILE	A	101	-1.104	13.303	-4.998	52.13	0.00	N
ATOM	402	CA	ILE	A	101	-2.137	14.137	-4.384	52.13	0.00	C
ATOM	403	C	ILE	A	101	-2.390	15.420	-5.140	52.13	0.00	C
ATOM	404	O	ILE	A	101	-1.467	16.143	-5.558	52.13	0.00	O
ATOM	405	N	ILE	A	102	-3.672	15.695	-5.329	51.64	0.00	N
ATOM	406	CA	ILE	A	102	-4.083	17.004	-5.796	51.64	0.00	C
ATOM	407	C	ILE	A	102	-4.628	17.765	-4.581	51.64	0.00	C
ATOM	408	O	ILE	A	102	-5.695	17.431	-4.073	51.64	0.00	O
ATOM	409	N	ARG	A	103	-3.845	18.751	-4.103	49.29	0.00	N
ATOM	410	CA	ARG	A	103	-4.150	19.504	-2.879	49.29	0.00	C
ATOM	411	C	ARG	A	103	-5.423	20.391	-2.949	49.29	0.00	C
ATOM	412	O	ARG	A	103	-6.199	20.482	-1.960	49.29	0.00	O
ATOM	413	N	ASN	A	104	-5.626	21.051	-4.095	45.99	0.00	N
ATOM	414	CA	ASN	A	104	-6.745	21.998	-4.259	45.99	0.00	C
ATOM	415	C	ASN	A	104	-7.230	21.994	-5.679	45.99	0.00	C
ATOM	416	O	ASN	A	104	-6.693	22.692	-6.538	45.99	0.00	O
ATOM	417	N	ASP	A	105	-8.253	21.174	-5.879	43.08	0.00	N
ATOM	418	CA	ASP	A	105	-9.039	21.134	-7.084	43.08	0.00	C
ATOM	419	C	ASP	A	105	-10.471	21.605	-6.714	43.08	0.00	C
ATOM	420	O	ASP	A	105	-11.262	20.843	-6.158	43.08	0.00	O
ATOM	421	N	ASN	A	106	-10.768	22.878	-6.986	50.08	0.00	N
ATOM	422	CA	ASN	A	106	-12.040	23.506	-6.575	50.08	0.00	C
ATOM	423	C	ASN	A	106	-12.422	23.321	-5.104	50.08	0.00	C
ATOM	424	O	ASN	A	106	-13.561	23.020	-4.774	50.08	0.00	O
ATOM	425	N	GLY	A	107	-11.470	23.524	-4.215	44.36	0.00	N
ATOM	426	CA	GLY	A	107	-11.717	23.337	-2.789	44.36	0.00	C
ATOM	427	C	GLY	A	107	-11.737	21.883	-2.335	44.36	0.00	C
ATOM	428	O	GLY	A	107	-12.404	21.544	-1.352	44.36	0.00	O
ATOM	429	N	LYS	A	108	-11.008	21.019	-3.043	50.81	0.00	N
ATOM	430	CA	LYS	A	108	-10.915	19.615	-2.668	50.81	0.00	C
ATOM	431	C	LYS	A	108	-9.483	19.049	-2.884	50.81	0.00	C
ATOM	432	O	LYS	A	108	-8.779	19.403	-3.839	50.81	0.00	O
ATOM	433	N	SER	A	109	-9.039	18.236	-1.933	55.18	0.00	N
ATOM	434	CA	SER	A	109	-7.862	17.387	-2.118	55.18	0.00	C
ATOM	435	C	SER	A	109	-8.308	16.067	-2.739	55.18	0.00	C
ATOM	436	O	SER	A	109	-9.315	15.517	-2.353	55.18	0.00	O
ATOM	437	N	ILE	A	110	-7.524	15.551	-3.650	54.55	0.00	N
ATOM	438	CA	ILE	A	110	-7.790	14.265	-4.209	54.55	0.00	C
ATOM	439	C	ILE	A	110	-6.588	13.343	-3.999	54.55	0.00	C
ATOM	440	O	ILE	A	110	-5.512	13.629	-4.510	54.55	0.00	O
ATOM	441	N	VAL	A	111	-6.752	12.243	-3.266	56.94	0.00	N
ATOM	442	CA	VAL	A	111	-5.679	11.220	-3.198	56.94	0.00	C
ATOM	443	C	VAL	A	111	-5.836	10.276	-4.388	56.94	0.00	C
ATOM	444	O	VAL	A	111	-6.932	9.764	-4.636	56.94	0.00	O
ATOM	445	N	ILE	A	112	-4.775	10.018	-5.128	55.75	0.00	N
ATOM	446	CA	ILE	A	112	-4.866	9.126	-6.282	55.75	0.00	C
ATOM	447	C	ILE	A	112	-4.010	7.894	-6.056	55.75	0.00	C
ATOM	448	O	ILE	A	112	-2.842	8.019	-5.770	55.75	0.00	O
ATOM	449	N	GLU	A	113	-4.547	6.709	-6.243	47.46	0.00	N
ATOM	450	CA	GLU	A	113	-3.780	5.455	-6.060	47.46	0.00	C
ATOM	451	C	GLU	A	113	-3.823	4.710	-7.388	47.46	0.00	C
ATOM	452	O	GLU	A	113	-4.882	4.569	-8.052	47.46	0.00	O
ATOM	453	N	ILE	A	114	-2.657	4.354	-7.861	50.04	0.00	N
ATOM	454	CA	ILE	A	114	-2.531	3.758	-9.150	50.04	0.00	C
ATOM	455	C	ILE	A	114	-2.210	2.295	-8.960	50.04	0.00	C
ATOM	456	O	ILE	A	114	-1.423	1.954	-8.099	50.04	0.00	O
ATOM	457	N	LYS	A	115	-2.787	1.433	-9.786	48.70	0.00	N
ATOM	458	CA	LYS	A	115	-2.621	0.003	-9.616	48.70	0.00	C
ATOM	459	C	LYS	A	115	-2.438	-0.643	-10.947	48.70	0.00	C
ATOM	460	O	LYS	A	115	-2.964	-0.176	-11.951	48.70	0.00	O
ATOM	461	N	THR	A	116	-1.684	-1.729	-10.958	39.30	0.00	N
ATOM	462	CA	THR	A	116	-1.468	-2.466	-12.194	39.30	0.00	C
ATOM	463	C	THR	A	116	-1.602	-3.921	-11.890	39.30	0.00	C
ATOM	464	O	THR	A	116	-1.369	-4.337	-10.804	39.30	0.00	O
ATOM	465	N	SER	A	117	-2.085	-4.706	-12.802	35.66	0.00	N
ATOM	466	CA	SER	A	117	-2.109	-6.154	-12.601	35.66	0.00	C
ATOM	467	C	SER	A	117	-2.180	-6.692	-13.946	35.66	0.00	C
ATOM	468	O	SER	A	117	-2.324	-5.911	-14.909	35.66	0.00	O

ATOM	469	N	ARG	A	118	-2.032	-8.006	-14.033	2.77	0.00	N
ATOM	470	CA	ARG	A	118	-2.068	-8.640	-15.363	2.77	0.00	C
ATOM	471	C	ARG	A	118	-3.471	-8.928	-15.862	2.77	0.00	C
ATOM	472	O	ARG	A	118	-3.648	-9.162	-17.069	2.77	0.00	O
ATOM	473	N	SER	A	119	-4.457	-8.893	-14.965	43.98	0.00	N
ATOM	474	CA	SER	A	119	-5.872	-9.062	-15.362	43.98	0.00	C
ATOM	475	C	SER	A	119	-6.800	-7.967	-14.770	43.98	0.00	C
ATOM	476	O	SER	A	119	-6.533	-7.439	-13.690	43.98	0.00	O
ATOM	477	N	ASP	A	120	-7.938	-7.766	-15.424	48.09	0.00	N
ATOM	478	CA	ASP	A	120	-8.922	-6.789	-15.023	48.09	0.00	C
ATOM	479	C	ASP	A	120	-10.062	-7.464	-14.339	48.09	0.00	C
ATOM	480	O	ASP	A	120	-11.180	-6.930	-14.286	48.09	0.00	O
ATOM	481	N	LYS	A	121	-9.805	-8.622	-13.800	17.69	0.00	N
ATOM	482	CA	LYS	A	121	-10.861	-9.343	-13.147	17.69	0.00	C
ATOM	483	C	LYS	A	121	-11.305	-8.719	-11.850	17.69	0.00	C
ATOM	484	O	LYS	A	121	-10.493	-8.415	-10.994	17.69	0.00	O
ATOM	485	N	GLY	A	122	-12.595	-8.552	-11.661	51.98	0.00	N
ATOM	486	CA	GLY	A	122	-13.099	-8.150	-10.341	51.98	0.00	C
ATOM	487	C	GLY	A	122	-12.816	-6.695	-9.897	51.98	0.00	C
ATOM	488	O	GLY	A	122	-13.062	-6.363	-8.702	51.98	0.00	O
ATOM	489	N	LEU	A	123	-12.369	-5.819	-10.826	66.67	0.00	N
ATOM	490	CA	LEU	A	123	-12.047	-4.418	-10.440	66.67	0.00	C
ATOM	491	C	LEU	A	123	-13.261	-3.672	-9.972	66.67	0.00	C
ATOM	492	O	LEU	A	123	-14.252	-3.694	-10.654	66.67	0.00	O
ATOM	493	N	PRO	A	124	-13.153	-2.951	-8.838	59.92	0.00	N
ATOM	494	CA	PRO	A	124	-11.936	-2.786	-8.048	59.92	0.00	C
ATOM	495	C	PRO	A	124	-11.854	-3.776	-6.934	59.92	0.00	C
ATOM	496	O	PRO	A	124	-12.861	-4.122	-6.314	59.92	0.00	O
ATOM	497	N	LEU	A	125	-10.645	-4.184	-6.634	44.28	0.00	N
ATOM	498	CA	LEU	A	125	-10.394	-5.171	-5.542	44.28	0.00	C
ATOM	499	C	LEU	A	125	-10.497	-4.530	-4.149	44.28	0.00	C
ATOM	500	O	LEU	A	125	-10.112	-3.350	-3.908	44.28	0.00	O
ATOM	501	N	ILE	A	126	-11.048	-5.276	-3.221	45.33	0.00	N
ATOM	502	CA	ILE	A	126	-11.528	-4.647	-1.996	45.33	0.00	C
ATOM	503	C	ILE	A	126	-10.339	-4.126	-1.167	45.33	0.00	C
ATOM	504	O	ILE	A	126	-10.462	-3.123	-0.513	45.33	0.00	O
ATOM	505	N	HIS	A	127	-9.195	-4.779	-1.251	35.63	0.00	N
ATOM	506	CA	HIS	A	127	-8.055	-4.383	-0.479	35.63	0.00	C
ATOM	507	C	HIS	A	127	-7.440	-3.163	-1.103	35.63	0.00	C
ATOM	508	O	HIS	A	127	-6.834	-2.382	-0.415	35.63	0.00	O
ATOM	509	N	HIS	A	128	-7.592	-2.980	-2.400	39.03	0.00	N
ATOM	510	CA	HIS	A	128	-7.176	-1.718	-3.018	39.03	0.00	C
ATOM	511	C	HIS	A	128	-8.083	-0.558	-2.609	39.03	0.00	C
ATOM	512	O	HIS	A	128	-7.606	0.554	-2.368	39.03	0.00	O
ATOM	513	N	LYS	A	129	-9.365	-0.803	-2.526	61.21	0.00	N
ATOM	514	CA	LYS	A	129	-10.266	0.264	-2.198	61.21	0.00	C
ATOM	515	C	LYS	A	129	-10.028	0.593	-0.745	61.21	0.00	C
ATOM	516	O	LYS	A	129	-9.930	1.747	-0.408	61.21	0.00	O
ATOM	517	N	MSE	A	130	-9.911	-0.410	0.128	46.12	0.00	N
ATOM	518	CA	MSE	A	130	-9.661	-0.122	1.564	46.12	0.00	C
ATOM	519	C	MSE	A	130	-8.432	0.772	1.739	46.12	0.00	C
ATOM	520	O	MSE	A	130	-8.445	1.649	2.550	46.12	0.00	O
ATOM	521	N	GLN	A	131	-7.394	0.520	0.958	56.30	0.00	N
ATOM	522	CA	GLN	A	131	-6.133	1.211	1.097	56.30	0.00	C
ATOM	523	C	GLN	A	131	-6.400	2.668	0.780	56.30	0.00	C
ATOM	524	O	GLN	A	131	-5.918	3.542	1.460	56.30	0.00	O
ATOM	525	N	LEU	A	132	-7.195	2.936	-0.242	53.92	0.00	N
ATOM	526	CA	LEU	A	132	-7.436	4.290	-0.682	53.92	0.00	C
ATOM	527	C	LEU	A	132	-8.295	4.984	0.347	53.92	0.00	C
ATOM	528	O	LEU	A	132	-8.142	6.173	0.629	53.92	0.00	O
ATOM	529	N	GLN	A	133	-9.173	4.244	0.963	50.81	0.00	N
ATOM	530	CA	GLN	A	133	-10.034	4.835	1.951	50.81	0.00	C
ATOM	531	C	GLN	A	133	-9.306	5.181	3.263	50.81	0.00	C
ATOM	532	O	GLN	A	133	-9.739	6.050	4.021	50.81	0.00	O
ATOM	533	N	ILE	A	134	-8.240	4.450	3.561	59.98	0.00	N
ATOM	534	CA	ILE	A	134	-7.448	4.750	4.709	59.98	0.00	C
ATOM	535	C	ILE	A	134	-6.635	6.008	4.375	59.98	0.00	C
ATOM	536	O	ILE	A	134	-6.604	6.904	5.182	59.98	0.00	O
ATOM	537	N	TYR	A	135	-5.993	6.089	3.200	55.08	0.00	N
ATOM	538	CA	TYR	A	135	-5.308	7.299	2.832	55.08	0.00	C
ATOM	539	C	TYR	A	135	-6.263	8.486	3.003	55.08	0.00	C
ATOM	540	O	TYR	A	135	-5.876	9.536	3.592	55.08	0.00	O
ATOM	541	N	LEU	A	136	-7.510	8.345	2.563	49.84	0.00	N
ATOM	542	CA	LEU	A	136	-8.431	9.472	2.663	49.84	0.00	C
ATOM	543	C	LEU	A	136	-8.471	9.988	4.123	49.84	0.00	C
ATOM	544	O	LEU	A	136	-8.423	11.193	4.364	49.84	0.00	O
ATOM	545	N	TRP	A	137	-8.562	9.085	5.079	49.66	0.00	N
ATOM	546	CA	TRP	A	137	-8.471	9.465	6.480	49.66	0.00	C
ATOM	547	C	TRP	A	137	-7.090	10.092	6.781	49.66	0.00	C
ATOM	548	O	TRP	A	137	-6.988	11.182	7.363	49.66	0.00	O
ATOM	549	N	LEU	A	138	-6.039	9.457	6.283	53.75	0.00	N
ATOM	550	CA	LEU	A	138	-4.665	9.881	6.616	53.75	0.00	C
ATOM	551	C	LEU	A	138	-4.353	11.332	6.246	53.75	0.00	C
ATOM	552	O	LEU	A	138	-3.806	12.080	7.039	53.75	0.00	O
ATOM	553	N	PHE	A	139	-4.725	11.691	5.030	48.93	0.00	N
ATOM	554	CA	PHE	A	139	-4.602	13.020	4.511	48.93	0.00	C
ATOM	555	C	PHE	A	139	-5.790	13.890	4.834	48.93	0.00	C
ATOM	556	O	PHE	A	139	-5.772	15.074	4.508	48.93	0.00	O
ATOM	557	N	SER	A	140	-6.827	13.321	5.474	50.30	0.00	N
ATOM	558	CA	SER	A	140	-8.140	13.999	5.608	50.30	0.00	C
ATOM	559	C	SER	A	140	-8.590	14.636	4.304	50.30	0.00	C
ATOM	560	O	SER	A	140	-8.961	15.800	4.273	50.30	0.00	O

ATOM	561	N	ALA	A	141	-8.519	13.878	3.227	48.21	0.00	N
ATOM	562	CA	ALA	A	141	-8.945	14.332	1.917	48.21	0.00	C
ATOM	563	C	ALA	A	141	-10.405	13.939	1.667	48.21	0.00	C
ATOM	564	O	ALA	A	141	-10.983	13.084	2.348	48.21	0.00	O
ATOM	565	N	GLU	A	142	-11.035	14.621	0.722	28.93	0.00	N
ATOM	566	CA	GLU	A	142	-12.471	14.427	0.489	28.93	0.00	C
ATOM	567	C	GLU	A	142	-12.738	13.477	-0.702	28.93	0.00	C
ATOM	568	O	GLU	A	142	-13.747	12.791	-0.707	28.93	0.00	O
ATOM	569	N	LYS	A	143	-11.805	13.444	-1.660	52.21	0.00	N
ATOM	570	CA	LYS	A	143	-11.916	12.652	-2.862	52.21	0.00	C
ATOM	571	C	LYS	A	143	-10.727	11.686	-3.055	52.21	0.00	C
ATOM	572	O	LYS	A	143	-9.539	11.991	-2.732	52.21	0.00	O
ATOM	573	N	GLY	A	144	-11.077	10.526	-3.602	52.67	0.00	N
ATOM	574	CA	GLY	A	144	-10.120	9.474	-3.925	52.67	0.00	C
ATOM	575	C	GLY	A	144	-10.352	8.924	-5.300	52.67	0.00	C
ATOM	576	O	GLY	A	144	-11.486	8.740	-5.697	52.67	0.00	O
ATOM	577	N	ILE	A	145	-9.286	8.679	-6.041	51.81	0.00	N
ATOM	578	CA	ILE	A	145	-9.380	8.016	-7.325	51.81	0.00	C
ATOM	579	C	ILE	A	145	-8.437	6.791	-7.270	51.81	0.00	C
ATOM	580	O	ILE	A	145	-7.274	6.920	-6.924	51.81	0.00	O
ATOM	581	N	LEU	A	146	-8.955	5.621	-7.649	54.22	0.00	N
ATOM	582	CA	LEU	A	146	-8.233	4.396	-7.797	54.22	0.00	C
ATOM	583	C	LEU	A	146	-8.251	4.098	-9.279	54.22	0.00	C
ATOM	584	O	LEU	A	146	-9.304	3.843	-9.816	54.22	0.00	O
ATOM	585	N	VAL	A	147	-7.117	4.065	-9.937	56.90	0.00	N
ATOM	586	CA	VAL	A	147	-7.059	3.872	-11.356	56.90	0.00	C
ATOM	587	C	VAL	A	147	-6.211	2.623	-11.646	56.90	0.00	C
ATOM	588	O	VAL	A	147	-5.067	2.470	-11.090	56.90	0.00	O
ATOM	589	N	TYR	A	148	-6.742	1.739	-12.509	56.66	0.00	N
ATOM	590	CA	TYR	A	148	-6.090	0.482	-12.844	56.66	0.00	C
ATOM	591	C	TYR	A	148	-5.595	0.575	-14.257	56.66	0.00	C
ATOM	592	O	TYR	A	148	-6.345	0.903	-15.117	56.66	0.00	O
ATOM	593	N	ILE	A	149	-4.338	0.293	-14.483	48.41	0.00	N
ATOM	594	CA	ILE	A	149	-3.766	0.206	-15.807	48.41	0.00	C
ATOM	595	C	ILE	A	149	-3.430	-1.275	-15.990	48.41	0.00	C
ATOM	596	O	ILE	A	149	-2.545	-1.776	-15.346	48.41	0.00	O
ATOM	597	N	THR	A	150	-4.180	-2.003	-16.800	51.51	0.00	N
ATOM	598	CA	THR	A	150	-3.964	-3.413	-16.968	51.51	0.00	C
ATOM	599	C	THR	A	150	-3.936	-3.690	-18.433	51.51	0.00	C
ATOM	600	O	THR	A	150	-4.311	-2.846	-19.222	51.51	0.00	O
ATOM	601	N	PRO	A	151	-3.486	-4.859	-18.836	42.72	0.00	N
ATOM	602	CA	PRO	A	151	-3.299	-5.051	-20.300	42.72	0.00	C
ATOM	603	C	PRO	A	151	-4.601	-5.273	-21.077	42.72	0.00	C
ATOM	604	O	PRO	A	151	-4.598	-5.259	-22.317	42.72	0.00	O
ATOM	605	N	ASP	A	152	-5.658	-5.505	-20.333	49.44	0.00	N
ATOM	606	CA	ASP	A	152	-6.988	-5.753	-20.794	49.44	0.00	C
ATOM	607	C	ASP	A	152	-7.910	-4.564	-20.707	49.44	0.00	C
ATOM	608	O	ASP	A	152	-8.921	-4.561	-21.326	49.44	0.00	O
ATOM	609	N	ARG	A	153	-7.550	-3.582	-19.909	50.16	0.00	N
ATOM	610	CA	ARG	A	153	-8.418	-2.528	-19.517	50.16	0.00	C
ATOM	611	C	ARG	A	153	-7.808	-1.437	-18.658	50.16	0.00	C
ATOM	612	O	ARG	A	153	-7.169	-1.665	-17.715	50.16	0.00	O
ATOM	613	N	ILE	A	154	-8.107	-0.221	-18.973	49.79	0.00	N
ATOM	614	CA	ILE	A	154	-7.873	0.874	-18.098	49.79	0.00	C
ATOM	615	C	ILE	A	154	-9.177	1.197	-17.432	49.79	0.00	C
ATOM	616	O	ILE	A	154	-10.135	1.182	-18.066	49.79	0.00	O
ATOM	617	N	ALA	A	155	-9.204	1.463	-16.150	50.43	0.00	N
ATOM	618	CA	ALA	A	155	-10.490	1.563	-15.403	50.43	0.00	C
ATOM	619	C	ALA	A	155	-10.307	2.411	-14.178	50.43	0.00	C
ATOM	620	O	ALA	A	155	-9.405	2.165	-13.464	50.43	0.00	O
ATOM	621	N	GLU	A	156	-11.159	3.389	-13.945	50.47	0.00	N
ATOM	622	CA	GLU	A	156	-10.959	4.392	-12.924	50.47	0.00	C
ATOM	623	C	GLU	A	156	-12.193	4.455	-12.023	50.47	0.00	C
ATOM	624	O	GLU	A	156	-13.299	4.455	-12.446	50.47	0.00	O
ATOM	625	N	TYR	A	157	-11.976	4.532	-10.746	38.52	0.00	N
ATOM	626	CA	TYR	A	157	-13.044	4.493	-9.764	38.52	0.00	C
ATOM	627	C	TYR	A	157	-12.934	5.658	-8.804	38.52	0.00	C
ATOM	628	O	TYR	A	157	-11.853	6.011	-8.265	38.52	0.00	O
ATOM	629	N	GLU	A	158	-14.055	6.253	-8.542	47.79	0.00	N
ATOM	630	CA	GLU	A	158	-14.108	7.361	-7.646	47.79	0.00	C
ATOM	631	C	GLU	A	158	-14.532	6.786	-6.302	47.79	0.00	C
ATOM	632	O	GLU	A	158	-15.602	6.184	-6.178	47.79	0.00	O
ATOM	633	N	ILE	A	159	-13.651	6.902	-5.311	53.24	0.00	N
ATOM	634	CA	ILE	A	159	-13.878	6.419	-3.939	53.24	0.00	C
ATOM	635	C	ILE	A	159	-13.755	7.649	-3.027	53.24	0.00	C
ATOM	636	O	ILE	A	159	-12.671	8.212	-2.918	53.24	0.00	O
ATOM	637	N	ASN	A	160	-14.849	8.038	-2.394	60.63	0.00	N
ATOM	638	CA	ASN	A	160	-14.894	9.274	-1.638	60.63	0.00	C
ATOM	639	C	ASN	A	160	-15.165	9.116	-0.146	60.63	0.00	C
ATOM	640	O	ASN	A	160	-14.949	10.056	0.594	60.63	0.00	O
ATOM	641	N	GLU	A	161	-15.536	7.926	0.306	50.70	0.00	N
ATOM	642	CA	GLU	A	161	-15.720	7.704	1.724	50.70	0.00	C
ATOM	643	C	GLU	A	161	-14.467	7.151	2.407	50.70	0.00	C
ATOM	644	O	GLU	A	161	-13.997	6.052	2.116	50.70	0.00	O
ATOM	645	N	PRO	A	162	-13.950	7.900	3.365	52.96	0.00	N
ATOM	646	CA	PRO	A	162	-12.848	7.426	4.187	52.96	0.00	C
ATOM	647	C	PRO	A	162	-13.323	6.439	5.227	52.96	0.00	C
ATOM	648	O	PRO	A	162	-14.483	6.537	5.645	52.96	0.00	O
ATOM	649	N	LEU	A	163	-12.444	5.517	5.661	52.16	0.00	N
ATOM	650	CA	LEU	A	163	-12.805	4.572	6.724	52.16	0.00	C
ATOM	651	C	LEU	A	163	-12.888	5.346	8.019	52.16	0.00	C
ATOM	652	O	LEU	A	163	-12.040	6.223	8.266	52.16	0.00	O

ATOM	653	N	ASP	A	164	-13.876	5.013	8.858	57.09	0.00	N
ATOM	654	CA	ASP	A	164	-13.934	5.590	10.207	57.09	0.00	C
ATOM	655	C	ASP	A	164	-12.616	5.280	10.928	57.09	0.00	C
ATOM	656	O	ASP	A	164	-11.940	4.300	10.622	57.09	0.00	O
ATOM	657	N	GLU	A	165	-12.301	6.090	11.926	61.08	0.00	N
ATOM	658	CA	GLU	A	165	-11.127	5.880	12.758	61.08	0.00	C
ATOM	659	C	GLU	A	165	-11.240	4.594	13.565	61.08	0.00	C
ATOM	660	O	GLU	A	165	-10.265	3.923	13.761	61.08	0.00	O
ATOM	661	N	ALA	A	166	-12.438	4.252	14.016	53.69	0.00	N
ATOM	662	CA	ALA	A	166	-12.662	3.006	14.753	53.69	0.00	C
ATOM	663	C	ALA	A	166	-12.336	1.750	13.921	53.69	0.00	C
ATOM	664	O	ALA	A	166	-11.761	0.808	14.415	53.69	0.00	O
ATOM	665	N	THR	A	167	-12.694	1.751	12.648	50.62	0.00	N
ATOM	666	CA	THR	A	167	-12.382	0.638	11.768	50.62	0.00	C
ATOM	667	C	THR	A	167	-10.872	0.497	11.623	50.62	0.00	C
ATOM	668	O	THR	A	167	-10.346	-0.601	11.637	50.62	0.00	O
ATOM	669	N	ILE	A	168	-10.171	1.619	11.528	56.16	0.00	N
ATOM	670	CA	ILE	A	168	-8.732	1.633	11.358	56.16	0.00	C
ATOM	671	C	ILE	A	168	-8.078	1.128	12.626	56.16	0.00	C
ATOM	672	O	ILE	A	168	-7.058	0.457	12.570	56.16	0.00	O
ATOM	673	N	VAL	A	169	-8.665	1.441	13.778	58.37	0.00	N
ATOM	674	CA	VAL	A	169	-8.132	0.957	15.026	58.37	0.00	C
ATOM	675	C	VAL	A	169	-8.314	-0.550	15.039	58.37	0.00	C
ATOM	676	O	VAL	A	169	-7.394	-1.257	15.440	58.37	0.00	O
ATOM	677	N	ARG	A	170	-9.472	-1.045	14.590	59.48	0.00	N
ATOM	678	CA	ARG	A	170	-9.700	-2.518	14.528	59.48	0.00	C
ATOM	679	C	ARG	A	170	-8.661	-3.202	13.604	59.48	0.00	C
ATOM	680	O	ARG	A	170	-8.069	-4.207	13.996	59.48	0.00	O
ATOM	681	N	LEU	A	171	-8.396	-2.610	12.430	49.98	0.00	N
ATOM	682	CA	LEU	A	171	-7.379	-3.127	11.527	49.98	0.00	C
ATOM	683	C	LEU	A	171	-6.020	-3.139	12.210	49.98	0.00	C
ATOM	684	O	LEU	A	171	-5.257	-4.108	12.109	49.98	0.00	O
ATOM	685	N	ALA	A	172	-5.723	-2.049	12.909	58.47	0.00	N
ATOM	686	CA	ALA	A	172	-4.457	-1.898	13.604	58.47	0.00	C
ATOM	687	C	ALA	A	172	-4.301	-2.947	14.696	58.47	0.00	C
ATOM	688	O	ALA	A	172	-3.240	-3.541	14.801	58.47	0.00	O
ATOM	689	N	GLU	A	173	-5.352	-3.187	15.479	69.53	0.00	N
ATOM	690	CA	GLU	A	173	-5.292	-4.177	16.568	69.53	0.00	C
ATOM	691	C	GLU	A	173	-4.915	-5.559	16.053	69.53	0.00	C
ATOM	692	O	GLU	A	173	-4.131	-6.255	16.707	69.53	0.00	O
ATOM	693	N	ASP	A	174	-5.506	-5.961	14.919	57.67	0.00	N
ATOM	694	CA	ASP	A	174	-5.208	-7.255	14.320	57.67	0.00	C
ATOM	695	C	ASP	A	174	-3.815	-7.301	13.840	57.67	0.00	C
ATOM	696	O	ASP	A	174	-3.169	-8.343	13.873	57.67	0.00	O
ATOM	697	N	THR	A	175	-3.325	-6.165	13.384	51.60	0.00	N
ATOM	698	CA	THR	A	175	-1.966	-6.171	12.887	51.60	0.00	C
ATOM	699	C	THR	A	175	-1.026	-6.460	14.019	51.60	0.00	C
ATOM	700	O	THR	A	175	-0.104	-7.267	13.894	51.60	0.00	O
ATOM	701	N	ILE	A	176	-1.312	-5.827	15.139	44.53	0.00	N
ATOM	702	CA	ILE	A	176	-0.456	-5.907	16.306	44.53	0.00	C
ATOM	703	C	ILE	A	176	-0.618	-7.264	17.013	44.53	0.00	C
ATOM	704	O	ILE	A	176	0.348	-7.982	17.191	44.53	0.00	O
ATOM	705	N	MSE	A	177	-1.846	-7.622	17.359	55.85	0.00	N
ATOM	706	CA	MSE	A	177	-2.110	-8.862	18.066	55.85	0.00	C
ATOM	707	C	MSE	A	177	-2.036	-10.148	17.184	55.85	0.00	C
ATOM	708	O	MSE	A	177	-2.230	-11.232	17.705	55.85	0.00	O
ATOM	709	N	LEU	A	178	-1.747	-10.045	15.885	59.55	0.00	N
ATOM	710	CA	LEU	A	178	-1.765	-11.195	14.931	59.55	0.00	C
ATOM	711	C	LEU	A	178	-3.082	-11.987	14.963	59.55	0.00	C
ATOM	712	O	LEU	A	178	-3.059	-13.216	14.908	59.55	0.00	O
ATOM	713	N	GLN	A	179	-4.195	-11.295	14.914	54.12	0.00	N
ATOM	714	CA	GLN	A	179	-5.488	-11.880	15.107	54.12	0.00	C
ATOM	715	C	GLN	A	179	-6.016	-12.818	14.022	54.12	0.00	C
ATOM	716	O	GLN	A	179	-6.283	-13.971	14.291	54.12	0.00	O
ATOM	717	N	ASN	A	180	-6.209	-12.312	12.822	48.75	0.00	N
ATOM	718	CA	ASN	A	180	-6.832	-13.100	11.723	48.75	0.00	C
ATOM	719	C	ASN	A	180	-5.958	-13.170	10.495	48.75	0.00	C
ATOM	720	O	ASN	A	180	-5.982	-12.302	9.632	48.75	0.00	O
ATOM	721	N	SER	A	181	-5.162	-14.213	10.431	62.92	0.00	N
ATOM	722	CA	SER	A	181	-4.294	-14.421	9.316	62.92	0.00	C
ATOM	723	C	SER	A	181	-4.685	-15.651	8.495	62.92	0.00	C
ATOM	724	O	SER	A	181	-4.793	-16.745	9.008	62.92	0.00	O
ATOM	725	N	PRO	A	182	-4.770	-15.497	7.199	62.16	0.00	N
ATOM	726	CA	PRO	A	182	-4.417	-14.305	6.461	62.16	0.00	C
ATOM	727	C	PRO	A	182	-5.557	-13.337	6.500	62.16	0.00	C
ATOM	728	O	PRO	A	182	-6.623	-13.675	7.004	62.16	0.00	O
ATOM	729	N	ARG	A	183	-5.357	-12.135	5.998	55.41	0.00	N
ATOM	730	CA	ARG	A	183	-6.436	-11.191	6.007	55.41	0.00	C
ATOM	731	C	ARG	A	183	-7.372	-11.579	4.893	55.41	0.00	C
ATOM	732	O	ARG	A	183	-8.603	-11.628	5.107	55.41	0.00	O
ATOM	733	N	PHE	A	184	-6.785	-11.851	3.718	42.08	0.00	N
ATOM	734	CA	PHE	A	184	-7.550	-12.410	2.590	42.08	0.00	C
ATOM	735	C	PHE	A	184	-7.017	-13.778	2.185	42.08	0.00	C
ATOM	736	O	PHE	A	184	-5.814	-14.039	2.233	42.08	0.00	O
ATOM	737	N	ASN	A	185	-7.926	-14.630	1.714	36.30	0.00	N
ATOM	738	CA	ASN	A	185	-7.604	-16.007	1.378	36.30	0.00	C
ATOM	739	C	ASN	A	185	-6.563	-16.229	0.291	36.30	0.00	C
ATOM	740	O	ASN	A	185	-5.857	-17.232	0.316	36.30	0.00	O
ATOM	741	N	TRP	A	186	-6.507	-15.349	-0.690	34.90	0.00	N
ATOM	742	CA	TRP	A	186	-5.602	-15.511	-1.821	34.90	0.00	C
ATOM	743	C	TRP	A	186	-4.124	-15.190	-1.442	34.90	0.00	C
ATOM	744	O	TRP	A	186	-3.168	-15.441	-2.207	34.90	0.00	O



ATOM	745	N	GLU	A	187	-3.932	-14.615	-0.259	46.05	0.00	N
ATOM	746	CA	GLU	A	187	-2.575	-14.179	0.176	46.05	0.00	C
ATOM	747	C	GLU	A	187	-1.511	-15.229	0.225	46.05	0.00	C
ATOM	748	O	GLU	A	187	-0.428	-15.028	-0.334	46.05	0.00	O
ATOM	749	N	CYS	A	188	-1.801	-16.352	0.884	53.49	0.00	N
ATOM	750	CA	CYS	A	188	-0.760	-17.344	1.180	53.49	0.00	C
ATOM	751	C	CYS	A	188	-0.146	-17.865	-0.127	53.49	0.00	C
ATOM	752	O	CYS	A	188	1.067	-18.120	-0.218	53.49	0.00	O
ATOM	753	N	LYS	A	189	-0.970	-17.963	-1.166	40.03	0.00	N
ATOM	754	CA	LYS	A	189	-0.511	-18.522	-2.447	40.03	0.00	C
ATOM	755	C	LYS	A	189	0.696	-17.731	-3.018	40.03	0.00	C
ATOM	756	O	LYS	A	189	1.569	-18.272	-3.724	40.03	0.00	O
ATOM	757	N	TYR	A	190	0.747	-16.439	-2.708	37.23	0.00	N
ATOM	758	CA	TYR	A	190	1.763	-15.611	-3.285	37.23	0.00	C
ATOM	759	C	TYR	A	190	2.819	-15.235	-2.248	37.23	0.00	C
ATOM	760	O	TYR	A	190	3.823	-14.654	-2.584	37.23	0.00	O
ATOM	761	N	CYS	A	191	2.587	-15.625	-0.997	43.81	0.00	N
ATOM	762	CA	CYS	A	191	3.353	-15.193	0.160	43.81	0.00	C
ATOM	763	C	CYS	A	191	4.692	-15.934	0.269	43.81	0.00	C
ATOM	764	O	CYS	A	191	4.732	-17.173	0.348	43.81	0.00	O
ATOM	765	N	ILE	A	192	5.784	-15.171	0.315	41.27	0.00	N
ATOM	766	CA	ILE	A	192	7.106	-15.776	0.279	41.27	0.00	C
ATOM	767	C	ILE	A	192	7.409	-16.403	1.615	41.27	0.00	C
ATOM	768	O	ILE	A	192	8.394	-17.068	1.711	41.27	0.00	O
ATOM	769	N	PHE	A	193	6.578	-16.191	2.632	42.93	0.00	N
ATOM	770	CA	PHE	A	193	6.786	-16.794	3.943	42.93	0.00	C
ATOM	771	C	PHE	A	193	5.984	-18.074	4.210	42.93	0.00	C
ATOM	772	O	PHE	A	193	5.990	-18.637	5.317	42.93	0.00	O
ATOM	773	N	SER	A	194	5.262	-18.513	3.198	34.28	0.00	N
ATOM	774	CA	SER	A	194	4.413	-19.711	3.328	34.28	0.00	C
ATOM	775	C	SER	A	194	5.249	-20.909	3.657	34.28	0.00	C
ATOM	776	O	SER	A	194	4.748	-21.746	4.298	34.28	0.00	O
ATOM	777	N	VAL	A	195	6.503	-20.952	3.199	39.35	0.00	N
ATOM	778	CA	VAL	A	195	7.410	-21.989	3.516	39.35	0.00	C
ATOM	779	C	VAL	A	195	7.733	-22.174	4.979	39.35	0.00	C
ATOM	780	O	VAL	A	195	8.309	-23.201	5.323	39.35	0.00	O
ATOM	781	N	ILE	A	196	7.419	-21.212	5.849	37.38	0.00	N
ATOM	782	CA	ILE	A	196	7.718	-21.354	7.295	37.38	0.00	C
ATOM	783	C	ILE	A	196	6.564	-20.975	8.148	37.38	0.00	C
ATOM	784	O	ILE	A	196	6.683	-20.972	9.331	37.38	0.00	O
ATOM	785	N	CYS	A	197	5.424	-20.671	7.561	52.86	0.00	N
ATOM	786	CA	CYS	A	197	4.335	-20.157	8.329	52.86	0.00	C
ATOM	787	C	CYS	A	197	3.331	-21.219	8.615	52.86	0.00	C
ATOM	788	O	CYS	A	197	2.836	-21.849	7.697	52.86	0.00	O
ATOM	789	N	PRO	A	198	2.960	-21.375	9.870	49.63	0.00	N
ATOM	790	CA	PRO	A	198	1.970	-22.338	10.280	49.63	0.00	C
ATOM	791	C	PRO	A	198	0.542	-22.046	9.971	49.63	0.00	C
ATOM	792	O	PRO	A	198	-0.290	-22.938	10.156	49.63	0.00	O
ATOM	793	N	ALA	A	199	0.227	-20.829	9.562	49.32	0.00	N
ATOM	794	CA	ALA	A	199	-1.167	-20.431	9.353	49.32	0.00	C
ATOM	795	C	ALA	A	199	-1.570	-20.467	7.877	49.32	0.00	C
ATOM	796	O	ALA	A	199	-2.731	-20.267	7.563	49.32	0.00	O
ATOM	797	N	LYS	A	200	-0.591	-20.655	6.991	64.63	0.00	N
ATOM	798	CA	LYS	A	200	-0.778	-20.823	5.548	64.63	0.00	C
ATOM	799	C	LYS	A	200	-1.946	-21.672	5.236	64.63	0.00	C
ATOM	800	O	LYS	A	200	-2.051	-22.735	5.769	64.63	0.00	O
ATOM	801	N	LEU	A	201	-2.799	-21.218	4.328	49.70	0.00	N
ATOM	802	CA	LEU	A	201	-3.935	-22.003	3.876	49.70	0.00	C
ATOM	803	C	LEU	A	201	-3.511	-23.046	2.859	49.70	0.00	C
ATOM	804	O	LEU	A	201	-2.649	-22.775	2.009	49.70	0.00	O
ATOM	805	N	THR	A	202	-4.127	-24.225	2.953	50.36	0.00	N
ATOM	806	CA	THR	A	202	-3.796	-25.369	2.082	50.36	0.00	C
ATOM	807	C	THR	A	202	-5.038	-25.920	1.370	50.36	0.00	C
ATOM	808	O	THR	A	202	-6.101	-25.964	1.999	50.36	0.00	O
TER	809		THR	A	202						O

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ENDMDL
END
REMARK      1 *****
REMARK      1 Start File NAT_vs_DEC2_dSi_colored.pdb
REMARK      1 The occupancy record was modified to represent dSi := Si(DEC)-Si(NAT).
REMARK      1 Occ=0.00 means dSi=-1.461482 kB; Occ=99.99 means dSi=1.491450 kB.
MODEL
0
ATOM       1  N  MSE  A   1   23.268  -4.104 -18.521  37.22  0.00  N
ATOM       2  CA MSE  A   1   23.439  -2.722 -18.016  37.22  0.00  C
ATOM       3  C  MSE  A   1   22.152  -2.161 -17.383  37.22  0.00  C
ATOM       4  O  MSE  A   1   22.147  -1.650 -16.252  37.22  0.00  O
ATOM       5  N  ILE  A   2   21.045  -2.254 -18.100  27.40  0.00  N
ATOM       6  CA ILE  A   2   19.816  -1.632 -17.608  27.40  0.00  C
ATOM       7  C  ILE  A   2   19.269  -2.405 -16.412  27.40  0.00  C
ATOM       8  O  ILE  A   2   18.935  -1.835 -15.391  27.40  0.00  O
ATOM       9  N  THR  A   3   19.186  -3.703 -16.563  41.96  0.00  N
ATOM      10  CA THR  A   3   18.718  -4.606 -15.498  41.96  0.00  C
ATOM      11  C  THR  A   3   19.478  -4.398 -14.212  41.96  0.00  C
ATOM      12  O  THR  A   3   18.884  -4.188 -13.150  41.96  0.00  O
ATOM      13  N  GLU  A   4   20.800  -4.447 -14.318  43.40  0.00  N
ATOM      14  CA GLU  A   4   21.687  -4.148 -13.195  43.40  0.00  C
ATOM      15  C  GLU  A   4   21.342  -2.832 -12.484  43.40  0.00  C
ATOM      16  O  GLU  A   4   21.232  -2.791 -11.242  43.40  0.00  O
ATOM      17  N  PHE  A   5   21.133  -1.765 -13.247  31.36  0.00  N
ATOM      18  CA PHE  A   5   20.826  -0.486 -12.602  31.36  0.00  C
ATOM      19  C  PHE  A   5   19.486  -0.520 -11.886  31.36  0.00  C
ATOM      20  O  PHE  A   5   19.415  -0.122 -10.736  31.36  0.00  O

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ATOM	21	N	LEU	A	6	18.429	-1.039	-12.529	28.08	0.00	N
ATOM	22	CA	LEU	A	6	17.100	-1.072	-11.873	28.08	0.00	C
ATOM	23	C	LEU	A	6	17.119	-1.921	-10.586	28.08	0.00	C
ATOM	24	O	LEU	A	6	16.551	-1.545	-9.531	28.08	0.00	O
ATOM	25	N	LEU	A	7	17.767	-3.071	-10.672	47.44	0.00	N
ATOM	26	CA	LEU	A	7	17.843	-3.929	-9.486	47.44	0.00	C
ATOM	27	C	LEU	A	7	18.603	-3.241	-8.341	47.44	0.00	C
ATOM	28	O	LEU	A	7	18.190	-3.292	-7.184	47.44	0.00	O
ATOM	29	N	LYS	A	8	19.691	-2.566	-8.693	29.50	0.00	N
ATOM	30	CA	LYS	A	8	20.463	-1.856	-7.680	29.50	0.00	C
ATOM	31	C	LYS	A	8	19.628	-0.762	-7.044	29.50	0.00	C
ATOM	32	O	LYS	A	8	19.527	-0.688	-5.819	29.50	0.00	O
ATOM	33	N	LYS	A	9	18.947	0.036	-7.860	0.00	0.00	N
ATOM	34	CA	LYS	A	9	18.144	1.113	-7.292	0.00	0.00	C
ATOM	35	C	LYS	A	9	17.009	0.545	-6.471	0.00	0.00	C
ATOM	36	O	LYS	A	9	16.708	1.086	-5.402	0.00	0.00	O
ATOM	37	N	LYS	A	10	16.379	-0.547	-6.912	56.51	0.00	N
ATOM	38	CA	LYS	A	10	15.262	-1.072	-6.116	56.51	0.00	C
ATOM	39	C	LYS	A	10	15.660	-1.681	-4.726	56.51	0.00	C
ATOM	40	O	LYS	A	10	14.931	-1.547	-3.695	56.51	0.00	O
ATOM	41	N	LEU	A	11	16.798	-2.366	-4.699	56.08	0.00	N
ATOM	42	CA	LEU	A	11	17.328	-2.879	-3.411	56.08	0.00	C
ATOM	43	C	LEU	A	11	17.613	-1.686	-2.439	56.08	0.00	C
ATOM	44	O	LEU	A	11	17.179	-1.698	-1.270	56.08	0.00	O
ATOM	45	N	GLU	A	12	18.299	-0.655	-2.945	40.56	0.00	N
ATOM	46	CA	GLU	A	12	18.475	0.605	-2.181	40.56	0.00	C
ATOM	47	C	GLU	A	12	17.179	1.213	-1.616	40.56	0.00	C
ATOM	48	O	GLU	A	12	17.048	1.390	-0.426	40.56	0.00	O
ATOM	49	N	GLU	A	13	16.225	1.536	-2.461	43.09	0.00	N
ATOM	50	CA	GLU	A	13	14.901	1.950	-1.974	43.09	0.00	C
ATOM	51	C	GLU	A	13	14.358	1.037	-0.868	43.09	0.00	C
ATOM	52	O	GLU	A	13	13.966	1.505	0.190	43.09	0.00	O
ATOM	53	N	HIS	A	14	14.335	-0.267	-1.101	62.74	0.00	N
ATOM	54	CA	HIS	A	14	13.794	-1.199	-0.106	62.74	0.00	C
ATOM	55	C	HIS	A	14	14.560	-1.126	1.236	62.74	0.00	C
ATOM	56	O	HIS	A	14	13.970	-1.122	2.322	62.74	0.00	O
ATOM	57	N	LEU	A	15	15.884	-1.079	1.145	54.44	0.00	N
ATOM	58	CA	LEU	A	15	16.750	-1.011	2.322	54.44	0.00	C
ATOM	59	C	LEU	A	15	16.724	0.377	2.988	54.44	0.00	C
ATOM	60	O	LEU	A	15	17.114	0.492	4.140	54.44	0.00	O
ATOM	61	N	SER	A	16	16.283	1.421	2.277	50.75	0.00	N
ATOM	62	CA	SER	A	16	16.215	2.761	2.870	50.75	0.00	C
ATOM	63	C	SER	A	16	15.126	2.866	3.937	50.75	0.00	C
ATOM	64	O	SER	A	16	15.184	3.766	4.746	50.75	0.00	O
ATOM	65	N	HIS	A	17	14.126	1.987	3.905	47.33	0.00	N
ATOM	66	CA	HIS	A	17	12.931	2.175	4.710	47.33	0.00	C
ATOM	67	C	HIS	A	17	12.911	1.290	5.925	47.33	0.00	C
ATOM	68	O	HIS	A	17	12.211	0.285	5.939	47.33	0.00	O
ATOM	69	N	VAL	A	18	13.667	1.662	6.952	46.62	0.00	N
ATOM	70	CA	VAL	A	18	13.649	0.930	8.226	46.62	0.00	C
ATOM	71	C	VAL	A	18	12.455	1.416	9.073	46.62	0.00	C
ATOM	72	O	VAL	A	18	12.231	2.619	9.198	46.62	0.00	O
ATOM	73	N	LYS	A	19	11.711	0.480	9.654	50.02	0.00	N
ATOM	74	CA	LYS	A	19	10.394	0.738	10.251	50.02	0.00	C
ATOM	75	C	LYS	A	19	10.466	0.797	11.779	50.02	0.00	C
ATOM	76	O	LYS	A	19	11.024	-0.102	12.394	50.02	0.00	O
ATOM	77	N	GLU	A	20	9.892	1.832	12.391	23.75	0.00	N
ATOM	78	CA	GLU	A	20	10.003	2.007	13.848	23.75	0.00	C
ATOM	79	C	GLU	A	20	8.986	1.178	14.597	23.75	0.00	C
ATOM	80	O	GLU	A	20	7.952	0.808	14.049	23.75	0.00	O
ATOM	81	N	GLU	A	21	9.300	0.899	15.861	36.12	0.00	N
ATOM	82	CA	GLU	A	21	8.634	-0.168	16.607	36.12	0.00	C
ATOM	83	C	GLU	A	21	7.153	0.124	16.844	36.12	0.00	C
ATOM	84	O	GLU	A	21	6.369	-0.811	17.040	36.12	0.00	O
ATOM	85	N	ASN	A	22	6.774	1.399	16.808	44.32	0.00	N
ATOM	86	CA	ASN	A	22	5.371	1.790	16.970	44.32	0.00	C
ATOM	87	C	ASN	A	22	4.716	2.391	15.715	44.32	0.00	C
ATOM	88	O	ASN	A	22	3.648	3.000	15.824	44.32	0.00	O
ATOM	89	N	THR	A	23	5.339	2.269	14.540	60.13	0.00	N
ATOM	90	CA	THR	A	23	4.636	2.674	13.297	60.13	0.00	C
ATOM	91	C	THR	A	23	3.937	1.492	12.597	60.13	0.00	C
ATOM	92	O	THR	A	23	4.343	0.315	12.707	60.13	0.00	O
ATOM	93	N	ILE	A	24	2.863	1.841	11.907	61.59	0.00	N
ATOM	94	CA	ILE	A	24	2.133	0.908	11.089	61.59	0.00	C
ATOM	95	C	ILE	A	24	1.893	1.588	9.781	61.59	0.00	C
ATOM	96	O	ILE	A	24	1.270	2.646	9.760	61.59	0.00	O
ATOM	97	N	TYR	A	25	2.393	1.015	8.691	56.15	0.00	N
ATOM	98	CA	TYR	A	25	2.072	1.558	7.393	56.15	0.00	C
ATOM	99	C	TYR	A	25	0.609	1.246	7.051	56.15	0.00	C
ATOM	100	O	TYR	A	25	0.029	0.273	7.510	56.15	0.00	O
ATOM	101	N	VAL	A	26	0.019	2.088	6.230	70.44	0.00	N
ATOM	102	CA	VAL	A	26	-1.326	1.856	5.716	70.44	0.00	C
ATOM	103	C	VAL	A	26	-1.394	0.504	4.989	70.44	0.00	C
ATOM	104	O	VAL	A	26	-2.320	-0.244	5.138	70.44	0.00	O
ATOM	105	N	THR	A	27	-0.413	0.264	4.153	57.80	0.00	N
ATOM	106	CA	THR	A	27	-0.225	-0.940	3.432	57.80	0.00	C
ATOM	107	C	THR	A	27	-0.214	-2.155	4.325	57.80	0.00	C
ATOM	108	O	THR	A	27	-0.816	-3.189	4.005	57.80	0.00	O
ATOM	109	N	ASP	A	28	0.421	-2.066	5.476	52.14	0.00	N
ATOM	110	CA	ASP	A	28	0.217	-3.125	6.447	52.14	0.00	C
ATOM	111	C	ASP	A	28	-1.221	-3.366	6.899	52.14	0.00	C
ATOM	112	O	ASP	A	28	-1.560	-4.494	7.172	52.14	0.00	O

ATOM	113	N	LEU	A	29	-2.082	-2.355	6.958	66.81	0.00	N
ATOM	114	CA	LEU	A	29	-3.418	-2.565	7.521	66.81	0.00	C
ATOM	115	C	LEU	A	29	-4.304	-3.447	6.637	66.81	0.00	C
ATOM	116	O	LEU	A	29	-5.335	-3.962	7.065	66.81	0.00	O
ATOM	117	N	VAL	A	30	-3.930	-3.597	5.378	55.91	0.00	N
ATOM	118	CA	VAL	A	30	-4.776	-4.325	4.449	55.91	0.00	C
ATOM	119	C	VAL	A	30	-4.099	-5.619	4.014	55.91	0.00	C
ATOM	120	O	VAL	A	30	-4.413	-6.174	2.971	55.91	0.00	O
ATOM	121	N	ARG	A	31	-3.154	-6.069	4.828	86.64	0.00	N
ATOM	122	CA	ARG	A	31	-2.426	-7.287	4.613	86.64	0.00	C
ATOM	123	C	ARG	A	31	-2.433	-8.174	5.834	86.64	0.00	C
ATOM	124	O	ARG	A	31	-2.927	-7.806	6.907	86.64	0.00	O
ATOM	125	N	CYS	A	32	-1.955	-9.395	5.616	50.59	0.00	N
ATOM	126	CA	CYS	A	32	-1.910	-10.426	6.637	50.59	0.00	C
ATOM	127	C	CYS	A	32	-1.015	-9.951	7.770	50.59	0.00	C
ATOM	128	O	CYS	A	32	0.134	-9.567	7.534	50.59	0.00	O
ATOM	129	N	PRO	A	33	-1.508	-10.024	8.999	50.11	0.00	N
ATOM	130	CA	PRO	A	33	-0.664	-9.610	10.083	50.11	0.00	C
ATOM	131	C	PRO	A	33	0.611	-10.429	10.223	50.11	0.00	C
ATOM	132	O	PRO	A	33	1.694	-9.852	10.411	50.11	0.00	O
ATOM	133	N	ARG	A	34	0.512	-11.757	10.119	34.08	0.00	N
ATOM	134	CA	ARG	A	34	1.689	-12.574	10.256	34.08	0.00	C
ATOM	135	C	ARG	A	34	2.720	-12.198	9.218	34.08	0.00	C
ATOM	136	O	ARG	A	34	3.911	-12.267	9.453	34.08	0.00	O
ATOM	137	N	ARG	A	35	2.276	-11.837	8.033	25.98	0.00	N
ATOM	138	CA	ARG	A	35	3.238	-11.530	6.965	25.98	0.00	C
ATOM	139	C	ARG	A	35	3.971	-10.221	7.251	25.98	0.00	C
ATOM	140	O	ARG	A	35	5.151	-10.042	6.901	25.98	0.00	O
ATOM	141	N	VAL	A	36	3.228	-9.297	7.848	52.80	0.00	N
ATOM	142	CA	VAL	A	36	3.791	-7.981	8.175	52.80	0.00	C
ATOM	143	C	VAL	A	36	4.864	-8.200	9.230	52.80	0.00	C
ATOM	144	O	VAL	A	36	5.972	-7.734	9.085	52.80	0.00	O
ATOM	145	N	ARG	A	37	4.561	-8.972	10.259	54.12	0.00	N
ATOM	146	CA	ARG	A	37	5.600	-9.259	11.227	54.12	0.00	C
ATOM	147	C	ARG	A	37	6.749	-10.045	10.630	54.12	0.00	C
ATOM	148	O	ARG	A	37	7.879	-9.890	11.061	54.12	0.00	O
ATOM	149	N	TYR	A	38	6.481	-10.904	9.649	45.86	0.00	N
ATOM	150	CA	TYR	A	38	7.570	-11.660	9.036	45.86	0.00	C
ATOM	151	C	TYR	A	38	8.499	-10.724	8.363	45.86	0.00	C
ATOM	152	O	TYR	A	38	9.689	-10.942	8.377	45.86	0.00	O
ATOM	153	N	GLU	A	39	7.963	-9.678	7.760	57.04	0.00	N
ATOM	154	CA	GLU	A	39	8.816	-8.667	7.126	57.04	0.00	C
ATOM	155	C	GLU	A	39	9.769	-7.904	8.077	57.04	0.00	C
ATOM	156	O	GLU	A	39	10.773	-7.394	7.597	57.04	0.00	O
ATOM	157	N	SER	A	40	9.464	-7.844	9.380	46.13	0.00	N
ATOM	158	CA	SER	A	40	10.398	-7.338	10.412	46.13	0.00	C
ATOM	159	C	SER	A	40	11.345	-8.393	10.958	46.13	0.00	C
ATOM	160	O	SER	A	40	12.540	-8.130	11.114	46.13	0.00	O
ATOM	161	N	GLU	A	41	10.808	-9.578	11.263	51.09	0.00	N
ATOM	162	CA	GLU	A	41	11.604	-10.637	11.865	51.09	0.00	C
ATOM	163	C	GLU	A	41	12.456	-11.415	10.889	51.09	0.00	C
ATOM	164	O	GLU	A	41	13.321	-12.135	11.370	51.09	0.00	O
ATOM	165	N	TYR	A	42	12.238	-11.336	9.566	43.68	0.00	N
ATOM	166	CA	TYR	A	42	13.052	-12.135	8.586	43.68	0.00	C
ATOM	167	C	TYR	A	42	13.369	-11.290	7.378	43.68	0.00	C
ATOM	168	O	TYR	A	42	13.024	-11.599	6.196	43.68	0.00	O
ATOM	169	N	LYS	A	43	14.059	-10.210	7.691	60.71	0.00	N
ATOM	170	CA	LYS	A	43	14.286	-9.169	6.756	60.71	0.00	C
ATOM	171	C	LYS	A	43	15.175	-9.664	5.651	60.71	0.00	C
ATOM	172	O	LYS	A	43	15.118	-9.127	4.534	60.71	0.00	O
ATOM	173	N	GLU	A	44	16.024	-10.635	5.936	55.81	0.00	N
ATOM	174	CA	GLU	A	44	16.906	-11.087	4.887	55.81	0.00	C
ATOM	175	C	GLU	A	44	16.077	-11.799	3.791	55.81	0.00	C
ATOM	176	O	GLU	A	44	16.309	-11.615	2.572	55.81	0.00	O
ATOM	177	N	LEU	A	45	15.070	-12.551	4.234	48.24	0.00	N
ATOM	178	CA	LEU	A	45	14.177	-13.244	3.311	48.24	0.00	C
ATOM	179	C	LEU	A	45	13.268	-12.185	2.642	48.24	0.00	C
ATOM	180	O	LEU	A	45	13.095	-12.177	1.406	48.24	0.00	O
ATOM	181	N	ALA	A	46	12.710	-11.278	3.448	62.46	0.00	N
ATOM	182	CA	ALA	A	46	11.893	-10.178	2.897	62.46	0.00	C
ATOM	183	C	ALA	A	46	12.519	-9.534	1.649	62.46	0.00	C
ATOM	184	O	ALA	A	46	11.825	-9.262	0.709	62.46	0.00	O
ATOM	185	N	ILE	A	47	13.830	-9.341	1.634	56.61	0.00	N
ATOM	186	CA	ILE	A	47	14.526	-8.691	0.538	56.61	0.00	C
ATOM	187	C	ILE	A	47	14.299	-9.332	-0.838	56.61	0.00	C
ATOM	188	O	ILE	A	47	14.451	-8.669	-1.895	56.61	0.00	O
ATOM	189	N	SER	A	48	13.959	-10.620	-0.874	57.74	0.00	N
ATOM	190	CA	SER	A	48	13.715	-11.277	-2.169	57.74	0.00	C
ATOM	191	C	SER	A	48	12.509	-10.666	-2.882	57.74	0.00	C
ATOM	192	O	SER	A	48	12.401	-10.723	-4.108	57.74	0.00	O
ATOM	193	N	GLN	A	49	11.610	-10.068	-2.123	65.98	0.00	N
ATOM	194	CA	GLN	A	49	10.459	-9.434	-2.743	65.98	0.00	C
ATOM	195	C	GLN	A	49	10.847	-8.226	-3.623	65.98	0.00	C
ATOM	196	O	GLN	A	49	10.116	-7.889	-4.482	65.98	0.00	O
ATOM	197	N	VAL	A	50	12.031	-7.643	-3.424	68.48	0.00	N
ATOM	198	CA	VAL	A	50	12.659	-6.700	-4.358	68.48	0.00	C
ATOM	199	C	VAL	A	50	12.750	-7.176	-5.802	68.48	0.00	C
ATOM	200	O	VAL	A	50	12.805	-6.373	-6.754	68.48	0.00	O
ATOM	201	N	TYR	A	51	12.865	-8.468	-5.991	34.17	0.00	N
ATOM	202	CA	TYR	A	51	13.231	-8.953	-7.306	34.17	0.00	C
ATOM	203	C	TYR	A	51	12.000	-9.515	-8.013	34.17	0.00	C
ATOM	204	O	TYR	A	51	12.116	-10.179	-9.031	34.17	0.00	O

ATOM	205	N	ALA	A	52	10.823	-9.258	-7.445	46.56	0.00	N
ATOM	206	CA	ALA	A	52	9.580	-9.586	-8.075	46.56	0.00	C
ATOM	207	C	ALA	A	52	9.375	-8.694	-9.336	46.56	0.00	C
ATOM	208	O	ALA	A	52	9.152	-7.478	-9.216	46.56	0.00	O
ATOM	209	N	PRO	A	53	9.401	-9.282	-10.541	49.85	0.00	N
ATOM	210	CA	PRO	A	53	9.338	-8.519	-11.804	49.85	0.00	C
ATOM	211	C	PRO	A	53	8.051	-7.715	-11.969	49.85	0.00	C
ATOM	212	O	PRO	A	53	8.107	-6.662	-12.589	49.85	0.00	O
ATOM	213	N	SER	A	54	6.912	-8.185	-11.428	47.01	0.00	N
ATOM	214	CA	SER	A	54	5.662	-7.382	-11.372	47.01	0.00	C
ATOM	215	C	SER	A	54	5.807	-6.143	-10.551	47.01	0.00	C
ATOM	216	O	SER	A	54	5.159	-5.116	-10.806	47.01	0.00	O
ATOM	217	N	ALA	A	55	6.666	-6.210	-9.534	43.60	0.00	N
ATOM	218	CA	ALA	A	55	6.871	-5.023	-8.707	43.60	0.00	C
ATOM	219	C	ALA	A	55	7.756	-4.055	-9.490	43.60	0.00	C
ATOM	220	O	ALA	A	55	7.598	-2.860	-9.403	43.60	0.00	O
ATOM	221	N	ILE	A	56	8.662	-4.543	-10.314	26.91	0.00	N
ATOM	222	CA	ILE	A	56	9.562	-3.610	-11.005	26.91	0.00	C
ATOM	223	C	ILE	A	56	8.724	-2.964	-12.115	26.91	0.00	C
ATOM	224	O	ILE	A	56	8.790	-1.755	-12.348	26.91	0.00	O
ATOM	225	N	LEU	A	57	7.912	-3.805	-12.760	22.36	0.00	N
ATOM	226	CA	LEU	A	57	6.935	-3.366	-13.747	22.36	0.00	C
ATOM	227	C	LEU	A	57	6.033	-2.336	-13.087	22.36	0.00	C
ATOM	228	O	LEU	A	57	5.874	-1.207	-13.590	22.36	0.00	O
ATOM	229	N	GLY	A	58	5.483	-2.701	-11.946	47.90	0.00	N
ATOM	230	CA	GLY	A	58	4.634	-1.806	-11.182	47.90	0.00	C
ATOM	231	C	GLY	A	58	5.258	-0.473	-10.875	47.90	0.00	C
ATOM	232	O	GLY	A	58	4.607	0.560	-11.036	47.90	0.00	O
ATOM	233	N	ASP	A	59	6.514	-0.439	-10.443	47.45	0.00	N
ATOM	234	CA	ASP	A	59	7.150	0.844	-10.105	47.45	0.00	C
ATOM	235	C	ASP	A	59	7.486	1.775	-11.275	47.45	0.00	C
ATOM	236	O	ASP	A	59	7.461	2.943	-11.121	47.45	0.00	O
ATOM	237	N	ILE	A	60	7.874	1.212	-12.405	21.25	0.00	N
ATOM	238	CA	ILE	A	60	8.072	1.923	-13.651	21.25	0.00	C
ATOM	239	C	ILE	A	60	6.774	2.586	-14.133	21.25	0.00	C
ATOM	240	O	ILE	A	60	6.798	3.761	-14.559	21.25	0.00	O
ATOM	241	N	LEU	A	61	5.641	1.870	-14.058	25.12	0.00	N
ATOM	242	CA	LEU	A	61	4.334	2.454	-14.392	25.12	0.00	C
ATOM	243	C	LEU	A	61	4.024	3.653	-13.537	25.12	0.00	C
ATOM	244	O	LEU	A	61	3.668	4.678	-14.050	25.12	0.00	O
ATOM	245	N	HIS	A	62	4.172	3.508	-12.232	66.36	0.00	N
ATOM	246	CA	HIS	A	62	3.968	4.616	-11.306	66.36	0.00	C
ATOM	247	C	HIS	A	62	4.884	5.714	-11.684	66.36	0.00	C
ATOM	248	O	HIS	A	62	4.443	6.854	-11.841	66.36	0.00	O
ATOM	249	N	LEU	A	63	6.158	5.423	-11.888	23.84	0.00	N
ATOM	250	CA	LEU	A	63	7.034	6.526	-12.325	23.84	0.00	C
ATOM	251	C	LEU	A	63	6.405	7.217	-13.537	23.84	0.00	C
ATOM	252	O	LEU	A	63	6.167	8.394	-13.497	23.84	0.00	O
ATOM	253	N	GLY	A	64	6.109	6.499	-14.603	27.85	0.00	N
ATOM	254	CA	GLY	A	64	5.719	7.158	-15.811	27.85	0.00	C
ATOM	255	C	GLY	A	64	4.400	7.890	-15.740	27.85	0.00	C
ATOM	256	O	GLY	A	64	4.174	8.755	-16.509	27.85	0.00	O
ATOM	257	N	LEU	A	65	3.499	7.454	-14.886	31.75	0.00	N
ATOM	258	CA	LEU	A	65	2.129	7.928	-14.922	31.75	0.00	C
ATOM	259	C	LEU	A	65	2.136	9.075	-13.968	31.75	0.00	C
ATOM	260	O	LEU	A	65	1.699	10.153	-14.266	31.75	0.00	O
ATOM	261	N	GLU	A	66	2.672	8.845	-12.789	78.61	0.00	N
ATOM	262	CA	GLU	A	66	3.061	9.970	-11.943	78.61	0.00	C
ATOM	263	C	GLU	A	66	3.702	11.154	-12.688	78.61	0.00	C
ATOM	264	O	GLU	A	66	3.297	12.272	-12.436	78.61	0.00	O
ATOM	265	N	SER	A	67	4.665	10.981	-13.581	40.41	0.00	N
ATOM	266	CA	SER	A	67	5.183	12.221	-14.250	40.41	0.00	C
ATOM	267	C	SER	A	67	4.100	13.012	-15.067	40.41	0.00	C
ATOM	268	O	SER	A	67	4.182	14.248	-15.203	40.41	0.00	O
ATOM	269	N	VAL	A	68	3.091	12.293	-15.600	37.35	0.00	N
ATOM	270	CA	VAL	A	68	1.939	12.934	-16.238	37.35	0.00	C
ATOM	271	C	VAL	A	68	1.158	13.773	-15.231	37.35	0.00	C
ATOM	272	O	VAL	A	68	0.645	14.865	-15.520	37.35	0.00	O
ATOM	273	N	LEU	A	69	1.040	13.216	-14.047	35.55	0.00	N
ATOM	274	CA	LEU	A	69	0.261	13.818	-13.004	35.55	0.00	C
ATOM	275	C	LEU	A	69	0.848	15.118	-12.430	35.55	0.00	C
ATOM	276	O	LEU	A	69	0.134	15.992	-11.952	35.55	0.00	O
ATOM	277	N	LYS	A	70	2.165	15.215	-12.445	19.55	0.00	N
ATOM	278	CA	LYS	A	70	2.860	16.356	-11.911	19.55	0.00	C
ATOM	279	C	LYS	A	70	2.708	17.450	-12.934	19.55	0.00	C
ATOM	280	O	LYS	A	70	2.497	18.596	-12.562	19.55	0.00	O
ATOM	281	N	GLY	A	71	2.769	17.105	-14.229	30.56	0.00	N
ATOM	282	CA	GLY	A	71	2.550	18.111	-15.305	30.56	0.00	C
ATOM	283	C	GLY	A	71	1.130	18.685	-15.376	30.56	0.00	C
ATOM	284	O	GLY	A	71	0.821	19.815	-14.923	30.56	0.00	O
ATOM	285	N	ASN	A	72	0.217	17.876	-15.876	33.38	0.00	N
ATOM	286	CA	ASN	A	72	-1.095	18.370	-16.206	33.38	0.00	C
ATOM	287	C	ASN	A	72	-2.040	18.612	-15.074	33.38	0.00	C
ATOM	288	O	ASN	A	72	-2.921	19.420	-15.211	33.38	0.00	O
ATOM	289	N	PHE	A	73	-1.880	17.933	-13.966	52.13	0.00	N
ATOM	290	CA	PHE	A	73	-2.766	18.118	-12.847	52.13	0.00	C
ATOM	291	C	PHE	A	73	-2.091	18.771	-11.639	52.13	0.00	C
ATOM	292	O	PHE	A	73	-2.674	18.861	-10.593	52.13	0.00	O
ATOM	293	N	ASN	A	74	-0.838	19.166	-11.735	42.19	0.00	N
ATOM	294	CA	ASN	A	74	-0.201	19.781	-10.582	42.19	0.00	C
ATOM	295	C	ASN	A	74	-0.355	18.949	-9.279	42.19	0.00	C
ATOM	296	O	ASN	A	74	-0.590	19.474	-8.165	42.19	0.00	O

ATOM	297	N	ALA	A	75	-0.160	17.641	-9.414	49.67	0.00	N
ATOM	298	CA	ALA	A	75	-0.115	16.792	-8.245	49.67	0.00	C
ATOM	299	C	ALA	A	75	1.282	16.777	-7.622	49.67	0.00	C
ATOM	300	O	ALA	A	75	2.270	16.992	-8.289	49.67	0.00	O
ATOM	301	N	GLU	A	76	1.336	16.530	-6.332	45.22	0.00	N
ATOM	302	CA	GLU	A	76	2.559	16.069	-5.695	45.22	0.00	C
ATOM	303	C	GLU	A	76	2.544	14.546	-5.834	45.22	0.00	C
ATOM	304	O	GLU	A	76	1.466	13.957	-5.865	45.22	0.00	O
ATOM	305	N	THR	A	77	3.710	13.915	-5.909	63.11	0.00	N
ATOM	306	CA	THR	A	77	3.794	12.484	-6.087	63.11	0.00	C
ATOM	307	C	THR	A	77	4.639	11.898	-4.978	63.11	0.00	C
ATOM	308	O	THR	A	77	5.510	12.566	-4.500	63.11	0.00	O
ATOM	309	N	GLU	A	78	4.321	10.666	-4.562	62.28	0.00	N
ATOM	310	CA	GLU	A	78	4.988	9.920	-3.517	62.28	0.00	C
ATOM	311	C	GLU	A	78	5.020	10.703	-2.232	62.28	0.00	C
ATOM	312	O	GLU	A	78	6.063	10.936	-1.623	62.28	0.00	O
ATOM	313	N	VAL	A	79	3.826	11.074	-1.816	42.88	0.00	N
ATOM	314	CA	VAL	A	79	3.635	12.010	-0.767	42.88	0.00	C
ATOM	315	C	VAL	A	79	3.474	11.303	0.544	42.88	0.00	C
ATOM	316	O	VAL	A	79	2.510	10.573	0.774	42.88	0.00	O
ATOM	317	N	GLU	A	80	4.416	11.580	1.421	42.38	0.00	N
ATOM	318	CA	GLU	A	80	4.530	10.857	2.668	42.38	0.00	C
ATOM	319	C	GLU	A	80	3.901	11.655	3.780	42.38	0.00	C
ATOM	320	O	GLU	A	80	4.090	12.840	3.853	42.38	0.00	O
ATOM	321	N	THR	A	81	3.177	11.027	4.670	41.50	0.00	N
ATOM	322	CA	THR	A	81	2.510	11.744	5.761	41.50	0.00	C
ATOM	323	C	THR	A	81	2.133	10.811	6.884	41.50	0.00	C
ATOM	324	O	THR	A	81	2.164	9.597	6.754	41.50	0.00	O
ATOM	325	N	LEU	A	82	1.667	11.373	7.976	42.94	0.00	N
ATOM	326	CA	LEU	A	82	1.644	10.601	9.202	42.94	0.00	C
ATOM	327	C	LEU	A	82	0.492	11.060	10.035	42.94	0.00	C
ATOM	328	O	LEU	A	82	0.098	12.203	9.950	42.94	0.00	O
ATOM	329	N	ARG	A	83	-0.124	10.141	10.761	22.34	0.00	N
ATOM	330	CA	ARG	A	83	-1.326	10.449	11.518	22.34	0.00	C
ATOM	331	C	ARG	A	83	-1.368	9.467	12.659	22.34	0.00	C
ATOM	332	O	ARG	A	83	-0.926	8.327	12.512	22.34	0.00	O
ATOM	333	N	GLU	A	84	-1.873	9.890	13.809	13.69	0.00	N
ATOM	334	CA	GLU	A	84	-1.727	9.022	14.978	13.69	0.00	C
ATOM	335	C	GLU	A	84	-3.042	8.425	15.425	13.69	0.00	C
ATOM	336	O	GLU	A	84	-4.110	8.996	15.183	13.69	0.00	O
ATOM	337	N	ILE	A	85	-2.918	7.275	16.095	55.14	0.00	N
ATOM	338	CA	ILE	A	85	-4.029	6.451	16.449	55.14	0.00	C
ATOM	339	C	ILE	A	85	-3.781	5.841	17.813	55.14	0.00	C
ATOM	340	O	ILE	A	85	-2.643	5.507	18.123	55.14	0.00	O
ATOM	341	N	ASN	A	86	-4.840	5.701	18.619	49.91	0.00	N
ATOM	342	CA	ASN	A	86	-4.761	5.021	19.937	49.91	0.00	C
ATOM	343	C	ASN	A	86	-5.250	3.566	19.895	49.91	0.00	C
ATOM	344	O	ASN	A	86	-6.399	3.293	19.511	49.91	0.00	O
ATOM	345	N	VAL	A	87	-4.383	2.645	20.322	49.44	0.00	N
ATOM	346	CA	VAL	A	87	-4.703	1.227	20.308	49.44	0.00	C
ATOM	347	C	VAL	A	87	-4.355	0.547	21.630	49.44	0.00	C
ATOM	348	O	VAL	A	87	-3.230	0.067	21.819	49.44	0.00	O
ATOM	349	N	GLY	A	88	-5.321	0.484	22.542	48.77	0.00	N
ATOM	350	CA	GLY	A	88	-5.066	-0.115	23.865	48.77	0.00	C
ATOM	351	C	GLY	A	88	-4.192	0.803	24.708	48.77	0.00	C
ATOM	352	O	GLY	A	88	-3.216	0.373	25.351	48.77	0.00	O
ATOM	353	N	GLY	A	89	-4.538	2.089	24.663	49.03	0.00	N
ATOM	354	CA	GLY	A	89	-3.780	3.124	25.348	49.03	0.00	C
ATOM	355	C	GLY	A	89	-2.339	3.328	24.890	49.03	0.00	C
ATOM	356	O	GLY	A	89	-1.668	4.231	25.406	49.03	0.00	O
ATOM	357	N	LYS	A	90	-1.846	2.502	23.956	49.16	0.00	N
ATOM	358	CA	LYS	A	90	-0.547	2.733	23.318	49.16	0.00	C
ATOM	359	C	LYS	A	90	-0.830	3.651	22.138	49.16	0.00	C
ATOM	360	O	LYS	A	90	-1.881	3.541	21.497	49.16	0.00	O
ATOM	361	N	VAL	A	91	0.069	4.592	21.872	52.06	0.00	N
ATOM	362	CA	VAL	A	91	-0.106	5.503	20.744	52.06	0.00	C
ATOM	363	C	VAL	A	91	0.675	4.963	19.561	52.06	0.00	C
ATOM	364	O	VAL	A	91	1.817	4.523	19.727	52.06	0.00	O
ATOM	365	N	TYR	A	92	0.052	5.005	18.377	47.93	0.00	N
ATOM	366	CA	TYR	A	92	0.676	4.480	17.190	47.93	0.00	C
ATOM	367	C	TYR	A	92	0.645	5.490	16.087	47.93	0.00	C
ATOM	368	O	TYR	A	92	-0.329	6.191	15.893	47.93	0.00	O
ATOM	369	N	LYS	A	93	1.747	5.547	15.371	70.62	0.00	N
ATOM	370	CA	LYS	A	93	1.859	6.412	14.217	70.62	0.00	C
ATOM	371	C	LYS	A	93	1.524	5.603	12.955	70.62	0.00	C
ATOM	372	O	LYS	A	93	2.270	4.714	12.581	70.62	0.00	O
ATOM	373	N	ILE	A	94	0.406	5.927	12.320	47.02	0.00	N
ATOM	374	CA	ILE	A	94	0.084	5.372	11.038	47.02	0.00	C
ATOM	375	C	ILE	A	94	0.743	6.184	9.929	47.02	0.00	C
ATOM	376	O	ILE	A	94	0.556	7.385	9.807	47.02	0.00	O
ATOM	377	N	LYS	A	95	1.497	5.507	9.097	69.21	0.00	N
ATOM	378	CA	LYS	A	95	2.305	6.166	8.106	69.21	0.00	C
ATOM	379	C	LYS	A	95	1.950	5.702	6.699	69.21	0.00	C
ATOM	380	O	LYS	A	95	1.760	4.545	6.470	69.21	0.00	O
ATOM	381	N	GLY	A	96	1.853	6.613	5.743	48.31	0.00	N
ATOM	382	CA	GLY	A	96	1.572	6.242	4.383	48.31	0.00	C
ATOM	383	C	GLY	A	96	2.142	7.179	3.378	48.31	0.00	C
ATOM	384	O	GLY	A	96	2.537	8.280	3.703	48.31	0.00	O
ATOM	385	N	ARG	A	97	2.107	6.740	2.138	42.47	0.00	N
ATOM	386	CA	ARG	A	97	2.693	7.428	1.007	42.47	0.00	C
ATOM	387	C	ARG	A	97	1.769	7.206	-0.178	42.47	0.00	C
ATOM	388	O	ARG	A	97	1.672	6.084	-0.699	42.47	0.00	O

ATOM	389	N	ALA	A	98	1.104	8.281	-0.588	45.19	0.00	N
ATOM	390	CA	ALA	A	98	0.117	8.243	-1.592	45.19	0.00	C
ATOM	391	C	ALA	A	98	0.862	8.383	-2.906	45.19	0.00	C
ATOM	392	O	ALA	A	98	1.855	9.097	-3.010	45.19	0.00	O
ATOM	393	N	ASP	A	99	0.424	7.673	-3.912	66.23	0.00	N
ATOM	394	CA	ASP	A	99	1.076	7.754	-5.196	66.23	0.00	C
ATOM	395	C	ASP	A	99	0.974	9.188	-5.720	66.23	0.00	C
ATOM	396	O	ASP	A	99	1.922	9.707	-6.350	66.23	0.00	O
ATOM	397	N	ALA	A	100	-0.166	9.846	-5.513	53.59	0.00	N
ATOM	398	CA	ALA	A	100	-0.251	11.269	-5.953	53.59	0.00	C
ATOM	399	C	ALA	A	100	-1.290	11.992	-5.184	53.59	0.00	C
ATOM	400	O	ALA	A	100	-2.232	11.366	-4.731	53.59	0.00	O
ATOM	401	N	ILE	A	101	-1.104	13.303	-4.998	57.33	0.00	N
ATOM	402	CA	ILE	A	101	-2.137	14.137	-4.384	57.33	0.00	C
ATOM	403	C	ILE	A	101	-2.390	15.420	-5.140	57.33	0.00	C
ATOM	404	O	ILE	A	101	-1.467	16.143	-5.558	57.33	0.00	O
ATOM	405	N	ILE	A	102	-3.672	15.695	-5.329	55.03	0.00	N
ATOM	406	CA	ILE	A	102	-4.083	17.004	-5.796	55.03	0.00	C
ATOM	407	C	ILE	A	102	-4.628	17.765	-4.581	55.03	0.00	C
ATOM	408	O	ILE	A	102	-5.695	17.431	-4.073	55.03	0.00	O
ATOM	409	N	ARG	A	103	-3.845	18.751	-4.103	27.39	0.00	N
ATOM	410	CA	ARG	A	103	-4.150	19.504	-2.879	27.39	0.00	C
ATOM	411	C	ARG	A	103	-5.423	20.391	-2.949	27.39	0.00	C
ATOM	412	O	ARG	A	103	-6.199	20.482	-1.960	27.39	0.00	O
ATOM	413	N	ASN	A	104	-5.626	21.051	-4.095	50.54	0.00	N
ATOM	414	CA	ASN	A	104	-6.745	21.998	-4.259	50.54	0.00	C
ATOM	415	C	ASN	A	104	-7.230	21.994	-5.679	50.54	0.00	C
ATOM	416	O	ASN	A	104	-6.693	22.692	-6.538	50.54	0.00	O
ATOM	417	N	ASP	A	105	-8.253	21.174	-5.879	48.89	0.00	N
ATOM	418	CA	ASP	A	105	-9.039	21.134	-7.084	48.89	0.00	C
ATOM	419	C	ASP	A	105	-10.471	21.605	-6.714	48.89	0.00	C
ATOM	420	O	ASP	A	105	-11.262	20.843	-6.158	48.89	0.00	O
ATOM	421	N	ASN	A	106	-10.768	22.878	-6.986	47.26	0.00	N
ATOM	422	CA	ASN	A	106	-12.040	23.506	-6.575	47.26	0.00	C
ATOM	423	C	ASN	A	106	-12.422	23.321	-5.104	47.26	0.00	C
ATOM	424	O	ASN	A	106	-13.561	23.020	-4.774	47.26	0.00	O
ATOM	425	N	GLY	A	107	-11.470	23.524	-4.215	52.85	0.00	N
ATOM	426	CA	GLY	A	107	-11.717	23.337	-2.789	52.85	0.00	C
ATOM	427	C	GLY	A	107	-11.737	21.883	-2.335	52.85	0.00	C
ATOM	428	O	GLY	A	107	-12.404	21.544	-1.352	52.85	0.00	O
ATOM	429	N	LYS	A	108	-11.008	21.019	-3.043	29.53	0.00	N
ATOM	430	CA	LYS	A	108	-10.915	19.615	-2.668	29.53	0.00	C
ATOM	431	C	LYS	A	108	-9.483	19.049	-2.884	29.53	0.00	C
ATOM	432	O	LYS	A	108	-8.779	19.403	-3.839	29.53	0.00	O
ATOM	433	N	SER	A	109	-9.039	18.236	-1.933	43.88	0.00	N
ATOM	434	CA	SER	A	109	-7.862	17.387	-2.118	43.88	0.00	C
ATOM	435	C	SER	A	109	-8.308	16.067	-2.739	43.88	0.00	C
ATOM	436	O	SER	A	109	-9.315	15.517	-2.353	43.88	0.00	O
ATOM	437	N	ILE	A	110	-7.524	15.551	-3.650	43.16	0.00	N
ATOM	438	CA	ILE	A	110	-7.790	14.265	-4.209	43.16	0.00	C
ATOM	439	C	ILE	A	110	-6.588	13.343	-3.999	43.16	0.00	C
ATOM	440	O	ILE	A	110	-5.512	13.629	-4.510	43.16	0.00	O
ATOM	441	N	VAL	A	111	-6.752	12.243	-3.266	55.63	0.00	N
ATOM	442	CA	VAL	A	111	-5.679	11.220	-3.198	55.63	0.00	C
ATOM	443	C	VAL	A	111	-5.836	10.276	-4.388	55.63	0.00	C
ATOM	444	O	VAL	A	111	-6.932	9.764	-4.636	55.63	0.00	O
ATOM	445	N	ILE	A	112	-4.775	10.018	-5.128	58.72	0.00	N
ATOM	446	CA	ILE	A	112	-4.866	9.126	-6.282	58.72	0.00	C
ATOM	447	C	ILE	A	112	-4.010	7.894	-6.056	58.72	0.00	C
ATOM	448	O	ILE	A	112	-2.842	8.019	-5.770	58.72	0.00	O
ATOM	449	N	GLU	A	113	-4.547	6.709	-6.243	83.18	0.00	N
ATOM	450	CA	GLU	A	113	-3.780	5.455	-6.060	83.18	0.00	C
ATOM	451	C	GLU	A	113	-3.823	4.710	-7.388	83.18	0.00	C
ATOM	452	O	GLU	A	113	-4.882	4.569	-8.052	83.18	0.00	O
ATOM	453	N	ILE	A	114	-2.657	4.354	-7.861	52.42	0.00	N
ATOM	454	CA	ILE	A	114	-2.531	3.758	-9.150	52.42	0.00	C
ATOM	455	C	ILE	A	114	-2.210	2.295	-8.960	52.42	0.00	C
ATOM	456	O	ILE	A	114	-1.423	1.954	-8.099	52.42	0.00	O
ATOM	457	N	LYS	A	115	-2.787	1.433	-9.786	70.74	0.00	N
ATOM	458	CA	LYS	A	115	-2.621	0.003	-9.616	70.74	0.00	C
ATOM	459	C	LYS	A	115	-2.438	-0.643	-10.947	70.74	0.00	C
ATOM	460	O	LYS	A	115	-2.964	-0.176	-11.951	70.74	0.00	O
ATOM	461	N	THR	A	116	-1.684	-1.729	-10.958	42.92	0.00	N
ATOM	462	CA	THR	A	116	-1.468	-2.466	-12.194	42.92	0.00	C
ATOM	463	C	THR	A	116	-1.602	-3.921	-11.890	42.92	0.00	C
ATOM	464	O	THR	A	116	-1.369	-4.337	-10.804	42.92	0.00	O
ATOM	465	N	SER	A	117	-2.085	-4.706	-12.802	45.57	0.00	N
ATOM	466	CA	SER	A	117	-2.109	-6.154	-12.601	45.57	0.00	C
ATOM	467	C	SER	A	117	-2.180	-6.692	-13.946	45.57	0.00	C
ATOM	468	O	SER	A	117	-2.324	-5.911	-14.909	45.57	0.00	O
ATOM	469	N	ARG	A	118	-2.032	-8.006	-14.033	29.06	0.00	N
ATOM	470	CA	ARG	A	118	-2.068	-8.640	-15.363	29.06	0.00	C
ATOM	471	C	ARG	A	118	-3.471	-8.928	-15.862	29.06	0.00	C
ATOM	472	O	ARG	A	118	-3.648	-9.162	-17.069	29.06	0.00	O
ATOM	473	N	SER	A	119	-4.457	-8.893	-14.965	43.52	0.00	N
ATOM	474	CA	SER	A	119	-5.872	-9.062	-15.362	43.52	0.00	C
ATOM	475	C	SER	A	119	-6.800	-7.967	-14.770	43.52	0.00	C
ATOM	476	O	SER	A	119	-6.533	-7.439	-13.690	43.52	0.00	O
ATOM	477	N	ASP	A	120	-7.938	-7.766	-15.424	45.20	0.00	N
ATOM	478	CA	ASP	A	120	-8.922	-6.789	-15.023	45.20	0.00	C
ATOM	479	C	ASP	A	120	-10.062	-7.464	-14.339	45.20	0.00	C
ATOM	480	O	ASP	A	120	-11.180	-6.930	-14.286	45.20	0.00	O

ATOM	481	N	LYS	A	121	-9.805	-8.622	-13.800	28.78	0.00	N
ATOM	482	CA	LYS	A	121	-10.861	-9.343	-13.147	28.78	0.00	C
ATOM	483	C	LYS	A	121	-11.305	-8.719	-11.850	28.78	0.00	C
ATOM	484	O	LYS	A	121	-10.493	-8.415	-10.994	28.78	0.00	O
ATOM	485	N	GLY	A	122	-12.595	-8.552	-11.661	50.28	0.00	N
ATOM	486	CA	GLY	A	122	-13.099	-8.150	-10.341	50.28	0.00	C
ATOM	487	C	GLY	A	122	-12.816	-6.695	-9.897	50.28	0.00	C
ATOM	488	O	GLY	A	122	-13.062	-6.363	-8.702	50.28	0.00	O
ATOM	489	N	LEU	A	123	-12.369	-5.819	-10.826	74.40	0.00	N
ATOM	490	CA	LEU	A	123	-12.047	-4.418	-10.440	74.40	0.00	C
ATOM	491	C	LEU	A	123	-13.261	-3.672	-9.972	74.40	0.00	C
ATOM	492	O	LEU	A	123	-14.252	-3.694	-10.654	74.40	0.00	O
ATOM	493	N	PRO	A	124	-13.153	-2.951	-8.838	58.93	0.00	N
ATOM	494	CA	PRO	A	124	-11.936	-2.786	-8.048	58.93	0.00	C
ATOM	495	C	PRO	A	124	-11.854	-3.776	-6.934	58.93	0.00	C
ATOM	496	O	PRO	A	124	-12.861	-4.122	-6.314	58.93	0.00	O
ATOM	497	N	LEU	A	125	-10.645	-4.184	-6.634	43.87	0.00	N
ATOM	498	CA	LEU	A	125	-10.394	-5.171	-5.542	43.87	0.00	C
ATOM	499	C	LEU	A	125	-10.497	-4.530	-4.149	43.87	0.00	C
ATOM	500	O	LEU	A	125	-10.112	-3.350	-3.908	43.87	0.00	O
ATOM	501	N	ILE	A	126	-11.048	-5.276	-3.221	58.05	0.00	N
ATOM	502	CA	ILE	A	126	-11.528	-4.647	-1.996	58.05	0.00	C
ATOM	503	C	ILE	A	126	-10.339	-4.126	-1.167	58.05	0.00	C
ATOM	504	O	ILE	A	126	-10.462	-3.123	-0.513	58.05	0.00	O
ATOM	505	N	HIS	A	127	-9.195	-4.779	-1.251	43.35	0.00	N
ATOM	506	CA	HIS	A	127	-8.055	-4.383	-0.479	43.35	0.00	C
ATOM	507	C	HIS	A	127	-7.440	-3.163	-1.103	43.35	0.00	C
ATOM	508	O	HIS	A	127	-6.834	-2.382	-0.415	43.35	0.00	O
ATOM	509	N	HIS	A	128	-7.592	-2.980	-2.400	52.41	0.00	N
ATOM	510	CA	HIS	A	128	-7.176	-1.718	-3.018	52.41	0.00	C
ATOM	511	C	HIS	A	128	-8.083	-0.558	-2.609	52.41	0.00	C
ATOM	512	O	HIS	A	128	-7.606	0.554	-2.368	52.41	0.00	O
ATOM	513	N	LYS	A	129	-9.365	-0.803	-2.526	88.91	0.00	N
ATOM	514	CA	LYS	A	129	-10.266	0.264	-2.198	88.91	0.00	C
ATOM	515	C	LYS	A	129	-10.028	0.593	-0.745	88.91	0.00	C
ATOM	516	O	LYS	A	129	-9.930	1.747	-0.408	88.91	0.00	O
ATOM	517	N	MSE	A	130	-9.911	-0.410	0.128	78.04	0.00	N
ATOM	518	CA	MSE	A	130	-9.661	-0.122	1.564	78.04	0.00	C
ATOM	519	C	MSE	A	130	-8.432	0.772	1.739	78.04	0.00	C
ATOM	520	O	MSE	A	130	-8.445	1.649	2.550	78.04	0.00	O
ATOM	521	N	GLN	A	131	-7.394	0.520	0.958	58.11	0.00	N
ATOM	522	CA	GLN	A	131	-6.133	1.211	1.097	58.11	0.00	C
ATOM	523	C	GLN	A	131	-6.400	2.668	0.780	58.11	0.00	C
ATOM	524	O	GLN	A	131	-5.918	3.542	1.460	58.11	0.00	O
ATOM	525	N	LEU	A	132	-7.195	2.936	-0.242	72.67	0.00	N
ATOM	526	CA	LEU	A	132	-7.436	4.290	-0.682	72.67	0.00	C
ATOM	527	C	LEU	A	132	-8.295	4.984	0.347	72.67	0.00	C
ATOM	528	O	LEU	A	132	-8.142	6.173	0.629	72.67	0.00	O
ATOM	529	N	GLN	A	133	-9.173	4.244	0.963	99.99	0.00	N
ATOM	530	CA	GLN	A	133	-10.034	4.835	1.951	99.99	0.00	C
ATOM	531	C	GLN	A	133	-9.306	5.181	3.263	99.99	0.00	C
ATOM	532	O	GLN	A	133	-9.739	6.050	4.021	99.99	0.00	O
ATOM	533	N	ILE	A	134	-8.240	4.450	3.561	69.20	0.00	N
ATOM	534	CA	ILE	A	134	-7.448	4.750	4.709	69.20	0.00	C
ATOM	535	C	ILE	A	134	-6.635	6.008	4.375	69.20	0.00	C
ATOM	536	O	ILE	A	134	-6.604	6.904	5.182	69.20	0.00	O
ATOM	537	N	TYR	A	135	-5.993	6.089	3.200	53.52	0.00	N
ATOM	538	CA	TYR	A	135	-5.308	7.299	2.832	53.52	0.00	C
ATOM	539	C	TYR	A	135	-6.263	8.486	3.003	53.52	0.00	C
ATOM	540	O	TYR	A	135	-5.876	9.536	3.592	53.52	0.00	O
ATOM	541	N	LEU	A	136	-7.510	8.345	2.563	90.27	0.00	N
ATOM	542	CA	LEU	A	136	-8.431	9.472	2.663	90.27	0.00	C
ATOM	543	C	LEU	A	136	-8.471	9.988	4.123	90.27	0.00	C
ATOM	544	O	LEU	A	136	-8.423	11.193	4.364	90.27	0.00	O
ATOM	545	N	TRP	A	137	-8.562	9.085	5.079	77.33	0.00	N
ATOM	546	CA	TRP	A	137	-8.471	9.465	6.480	77.33	0.00	C
ATOM	547	C	TRP	A	137	-7.090	10.092	6.781	77.33	0.00	C
ATOM	548	O	TRP	A	137	-6.988	11.182	7.363	77.33	0.00	O
ATOM	549	N	LEU	A	138	-6.039	9.457	6.283	32.22	0.00	N
ATOM	550	CA	LEU	A	138	-4.665	9.881	6.616	32.22	0.00	C
ATOM	551	C	LEU	A	138	-4.353	11.332	6.246	32.22	0.00	C
ATOM	552	O	LEU	A	138	-3.806	12.080	7.039	32.22	0.00	O
ATOM	553	N	PHE	A	139	-4.725	11.691	5.030	59.66	0.00	N
ATOM	554	CA	PHE	A	139	-4.602	13.020	4.511	59.66	0.00	C
ATOM	555	C	PHE	A	139	-5.790	13.890	4.834	59.66	0.00	C
ATOM	556	O	PHE	A	139	-5.772	15.074	4.508	59.66	0.00	O
ATOM	557	N	SER	A	140	-6.827	13.321	5.474	50.13	0.00	N
ATOM	558	CA	SER	A	140	-8.140	13.999	5.608	50.13	0.00	C
ATOM	559	C	SER	A	140	-8.590	14.636	4.304	50.13	0.00	C
ATOM	560	O	SER	A	140	-8.961	15.800	4.273	50.13	0.00	O
ATOM	561	N	ALA	A	141	-8.519	13.878	3.227	49.30	0.00	N
ATOM	562	CA	ALA	A	141	-8.945	14.332	1.917	49.30	0.00	C
ATOM	563	C	ALA	A	141	-10.405	13.939	1.667	49.30	0.00	C
ATOM	564	O	ALA	A	141	-10.983	13.084	2.348	49.30	0.00	O
ATOM	565	N	GLU	A	142	-11.035	14.621	0.722	35.86	0.00	N
ATOM	566	CA	GLU	A	142	-12.471	14.427	0.489	35.86	0.00	C
ATOM	567	C	GLU	A	142	-12.738	13.477	-0.702	35.86	0.00	C
ATOM	568	O	GLU	A	142	-13.747	12.791	-0.707	35.86	0.00	O
ATOM	569	N	LYS	A	143	-11.805	13.444	-1.660	43.24	0.00	N
ATOM	570	CA	LYS	A	143	-11.916	12.652	-2.862	43.24	0.00	C
ATOM	571	C	LYS	A	143	-10.727	11.686	-3.055	43.24	0.00	C
ATOM	572	O	LYS	A	143	-9.539	11.991	-2.732	43.24	0.00	O

ATOM	573	N	GLY	A	144	-11.077	10.526	-3.602	49.83	0.00	N
ATOM	574	CA	GLY	A	144	-10.120	9.474	-3.925	49.83	0.00	C
ATOM	575	C	GLY	A	144	-10.352	8.924	-5.300	49.83	0.00	C
ATOM	576	O	GLY	A	144	-11.486	8.740	-5.697	49.83	0.00	O
ATOM	577	N	ILE	A	145	-9.286	8.679	-6.041	38.62	0.00	N
ATOM	578	CA	ILE	A	145	-9.380	8.016	-7.325	38.62	0.00	C
ATOM	579	C	ILE	A	145	-8.437	6.791	-7.270	38.62	0.00	C
ATOM	580	O	ILE	A	145	-7.274	6.920	-6.924	38.62	0.00	O
ATOM	581	N	LEU	A	146	-8.955	5.621	-7.649	51.00	0.00	N
ATOM	582	CA	LEU	A	146	-8.233	4.396	-7.797	51.00	0.00	C
ATOM	583	C	LEU	A	146	-8.251	4.098	-9.279	51.00	0.00	C
ATOM	584	O	LEU	A	146	-9.304	3.843	-9.816	51.00	0.00	O
ATOM	585	N	VAL	A	147	-7.117	4.065	-9.937	42.62	0.00	N
ATOM	586	CA	VAL	A	147	-7.059	3.872	-11.356	42.62	0.00	C
ATOM	587	C	VAL	A	147	-6.211	2.623	-11.646	42.62	0.00	C
ATOM	588	O	VAL	A	147	-5.067	2.470	-11.090	42.62	0.00	O
ATOM	589	N	TYR	A	148	-6.742	1.739	-12.509	47.38	0.00	N
ATOM	590	CA	TYR	A	148	-6.090	0.482	-12.844	47.38	0.00	C
ATOM	591	C	TYR	A	148	-5.595	0.575	-14.257	47.38	0.00	C
ATOM	592	O	TYR	A	148	-6.345	0.903	-15.117	47.38	0.00	O
ATOM	593	N	ILE	A	149	-4.338	0.293	-14.483	37.50	0.00	N
ATOM	594	CA	ILE	A	149	-3.766	0.206	-15.807	37.50	0.00	C
ATOM	595	C	ILE	A	149	-3.430	-1.275	-15.990	37.50	0.00	C
ATOM	596	O	ILE	A	149	-2.545	-1.776	-15.346	37.50	0.00	O
ATOM	597	N	THR	A	150	-4.180	-2.003	-16.800	44.28	0.00	N
ATOM	598	CA	THR	A	150	-3.964	-3.413	-16.968	44.28	0.00	C
ATOM	599	C	THR	A	150	-3.936	-3.690	-18.433	44.28	0.00	C
ATOM	600	O	THR	A	150	-4.311	-2.846	-19.222	44.28	0.00	O
ATOM	601	N	PRO	A	151	-3.486	-4.859	-18.836	38.24	0.00	N
ATOM	602	CA	PRO	A	151	-3.299	-5.051	-20.300	38.24	0.00	C
ATOM	603	C	PRO	A	151	-4.601	-5.273	-21.077	38.24	0.00	C
ATOM	604	O	PRO	A	151	-4.598	-5.259	-22.317	38.24	0.00	O
ATOM	605	N	ASP	A	152	-5.658	-5.505	-20.333	44.34	0.00	N
ATOM	606	CA	ASP	A	152	-6.988	-5.753	-20.794	44.34	0.00	C
ATOM	607	C	ASP	A	152	-7.910	-4.564	-20.707	44.34	0.00	C
ATOM	608	O	ASP	A	152	-8.921	-4.561	-21.326	44.34	0.00	O
ATOM	609	N	ARG	A	153	-7.550	-3.582	-19.909	47.43	0.00	N
ATOM	610	CA	ARG	A	153	-8.418	-2.528	-19.517	47.43	0.00	C
ATOM	611	C	ARG	A	153	-7.808	-1.437	-18.658	47.43	0.00	C
ATOM	612	O	ARG	A	153	-7.169	-1.665	-17.715	47.43	0.00	O
ATOM	613	N	ILE	A	154	-8.107	-0.221	-18.973	36.41	0.00	N
ATOM	614	CA	ILE	A	154	-7.873	0.874	-18.098	36.41	0.00	C
ATOM	615	C	ILE	A	154	-9.177	1.197	-17.432	36.41	0.00	C
ATOM	616	O	ILE	A	154	-10.135	1.182	-18.066	36.41	0.00	O
ATOM	617	N	ALA	A	155	-9.204	1.463	-16.150	46.26	0.00	N
ATOM	618	CA	ALA	A	155	-10.490	1.563	-15.403	46.26	0.00	C
ATOM	619	C	ALA	A	155	-10.307	2.411	-14.178	46.26	0.00	C
ATOM	620	O	ALA	A	155	-9.405	2.165	-13.464	46.26	0.00	O
ATOM	621	N	GLU	A	156	-11.159	3.389	-13.945	38.25	0.00	N
ATOM	622	CA	GLU	A	156	-10.959	4.392	-12.924	38.25	0.00	C
ATOM	623	C	GLU	A	156	-12.193	4.455	-12.023	38.25	0.00	C
ATOM	624	O	GLU	A	156	-13.299	4.455	-12.446	38.25	0.00	O
ATOM	625	N	TYR	A	157	-11.976	4.532	-10.746	48.68	0.00	N
ATOM	626	CA	TYR	A	157	-13.044	4.493	-9.764	48.68	0.00	C
ATOM	627	C	TYR	A	157	-12.934	5.658	-8.804	48.68	0.00	C
ATOM	628	O	TYR	A	157	-11.853	6.011	-8.265	48.68	0.00	O
ATOM	629	N	GLU	A	158	-14.055	6.253	-8.542	43.72	0.00	N
ATOM	630	CA	GLU	A	158	-14.108	7.361	-7.646	43.72	0.00	C
ATOM	631	C	GLU	A	158	-14.532	6.786	-6.302	43.72	0.00	C
ATOM	632	O	GLU	A	158	-15.602	6.184	-6.178	43.72	0.00	O
ATOM	633	N	ILE	A	159	-13.651	6.902	-5.311	48.13	0.00	N
ATOM	634	CA	ILE	A	159	-13.878	6.419	-3.939	48.13	0.00	C
ATOM	635	C	ILE	A	159	-13.755	7.649	-3.027	48.13	0.00	C
ATOM	636	O	ILE	A	159	-12.671	8.212	-2.918	48.13	0.00	O
ATOM	637	N	ASN	A	160	-14.849	8.038	-2.394	47.40	0.00	N
ATOM	638	CA	ASN	A	160	-14.894	9.274	-1.638	47.40	0.00	C
ATOM	639	C	ASN	A	160	-15.165	9.116	-0.146	47.40	0.00	C
ATOM	640	O	ASN	A	160	-14.949	10.056	0.594	47.40	0.00	O
ATOM	641	N	GLU	A	161	-15.536	7.926	0.306	37.06	0.00	N
ATOM	642	CA	GLU	A	161	-15.720	7.704	1.724	37.06	0.00	C
ATOM	643	C	GLU	A	161	-14.467	7.151	2.407	37.06	0.00	C
ATOM	644	O	GLU	A	161	-13.997	6.052	2.116	37.06	0.00	O
ATOM	645	N	PRO	A	162	-13.950	7.900	3.365	52.91	0.00	N
ATOM	646	CA	PRO	A	162	-12.848	7.426	4.187	52.91	0.00	C
ATOM	647	C	PRO	A	162	-13.323	6.439	5.227	52.91	0.00	C
ATOM	648	O	PRO	A	162	-14.483	6.537	5.645	52.91	0.00	O
ATOM	649	N	LEU	A	163	-12.444	5.517	5.661	61.33	0.00	N
ATOM	650	CA	LEU	A	163	-12.805	4.572	6.724	61.33	0.00	C
ATOM	651	C	LEU	A	163	-12.888	5.346	8.019	61.33	0.00	C
ATOM	652	O	LEU	A	163	-12.040	6.223	8.266	61.33	0.00	O
ATOM	653	N	ASP	A	164	-13.876	5.013	8.858	23.30	0.00	N
ATOM	654	CA	ASP	A	164	-13.934	5.590	10.207	23.30	0.00	C
ATOM	655	C	ASP	A	164	-12.616	5.280	10.928	23.30	0.00	C
ATOM	656	O	ASP	A	164	-11.940	4.300	10.622	23.30	0.00	O
ATOM	657	N	GLU	A	165	-12.301	6.090	11.926	46.45	0.00	N
ATOM	658	CA	GLU	A	165	-11.127	5.880	12.758	46.45	0.00	C
ATOM	659	C	GLU	A	165	-11.240	4.594	13.565	46.45	0.00	C
ATOM	660	O	GLU	A	165	-10.265	3.923	13.761	46.45	0.00	O
ATOM	661	N	ALA	A	166	-12.438	4.252	14.016	53.02	0.00	N
ATOM	662	CA	ALA	A	166	-12.662	3.006	14.753	53.02	0.00	C
ATOM	663	C	ALA	A	166	-12.336	1.750	13.921	53.02	0.00	C
ATOM	664	O	ALA	A	166	-11.761	0.808	14.415	53.02	0.00	O



ATOM	665	N	THR	A	167	-12.694	1.751	12.648	42.30	0.00	N
ATOM	666	CA	THR	A	167	-12.382	0.638	11.768	42.30	0.00	C
ATOM	667	C	THR	A	167	-10.872	0.497	11.623	42.30	0.00	C
ATOM	668	O	THR	A	167	-10.346	-0.601	11.637	42.30	0.00	O
ATOM	669	N	ILE	A	168	-10.171	1.619	11.528	51.74	0.00	N
ATOM	670	CA	ILE	A	168	-8.732	1.633	11.358	51.74	0.00	C
ATOM	671	C	ILE	A	168	-8.078	1.128	12.626	51.74	0.00	C
ATOM	672	O	ILE	A	168	-7.058	0.457	12.570	51.74	0.00	O
ATOM	673	N	VAL	A	169	-8.665	1.441	13.778	43.45	0.00	N
ATOM	674	CA	VAL	A	169	-8.132	0.957	15.026	43.45	0.00	C
ATOM	675	C	VAL	A	169	-8.314	-0.550	15.039	43.45	0.00	C
ATOM	676	O	VAL	A	169	-7.394	-1.257	15.440	43.45	0.00	O
ATOM	677	N	ARG	A	170	-9.472	-1.045	14.590	50.30	0.00	N
ATOM	678	CA	ARG	A	170	-9.700	-2.518	14.528	50.30	0.00	C
ATOM	679	C	ARG	A	170	-8.661	-3.202	13.604	50.30	0.00	C
ATOM	680	O	ARG	A	170	-8.069	-4.207	13.996	50.30	0.00	O
ATOM	681	N	LEU	A	171	-8.396	-2.610	12.430	43.66	0.00	N
ATOM	682	CA	LEU	A	171	-7.379	-3.127	11.527	43.66	0.00	C
ATOM	683	C	LEU	A	171	-6.020	-3.139	12.210	43.66	0.00	C
ATOM	684	O	LEU	A	171	-5.257	-4.108	12.109	43.66	0.00	O
ATOM	685	N	ALA	A	172	-5.723	-2.049	12.909	49.64	0.00	N
ATOM	686	CA	ALA	A	172	-4.457	-1.898	13.604	49.64	0.00	C
ATOM	687	C	ALA	A	172	-4.301	-2.947	14.696	49.64	0.00	C
ATOM	688	O	ALA	A	172	-3.240	-3.541	14.801	49.64	0.00	O
ATOM	689	N	GLU	A	173	-5.352	-3.187	15.479	48.78	0.00	N
ATOM	690	CA	GLU	A	173	-5.292	-4.177	16.568	48.78	0.00	C
ATOM	691	C	GLU	A	173	-4.915	-5.559	16.053	48.78	0.00	C
ATOM	692	O	GLU	A	173	-4.131	-6.255	16.707	48.78	0.00	O
ATOM	693	N	ASP	A	174	-5.506	-5.961	14.919	38.26	0.00	N
ATOM	694	CA	ASP	A	174	-5.208	-7.255	14.320	38.26	0.00	C
ATOM	695	C	ASP	A	174	-3.815	-7.301	13.840	38.26	0.00	C
ATOM	696	O	ASP	A	174	-3.169	-8.343	13.873	38.26	0.00	O
ATOM	697	N	THR	A	175	-3.325	-6.165	13.384	43.17	0.00	N
ATOM	698	CA	THR	A	175	-1.966	-6.171	12.887	43.17	0.00	C
ATOM	699	C	THR	A	175	-1.026	-6.460	14.019	43.17	0.00	C
ATOM	700	O	THR	A	175	-0.104	-7.267	13.894	43.17	0.00	O
ATOM	701	N	ILE	A	176	-1.312	-5.827	15.139	18.83	0.00	N
ATOM	702	CA	ILE	A	176	-0.456	-5.907	16.306	18.83	0.00	C
ATOM	703	C	ILE	A	176	-0.618	-7.264	17.013	18.83	0.00	C
ATOM	704	O	ILE	A	176	0.348	-7.982	17.191	18.83	0.00	O
ATOM	705	N	MSE	A	177	-1.846	-7.622	17.359	33.37	0.00	N
ATOM	706	CA	MSE	A	177	-2.110	-8.862	18.066	33.37	0.00	C
ATOM	707	C	MSE	A	177	-2.036	-10.148	17.184	33.37	0.00	C
ATOM	708	O	MSE	A	177	-2.230	-11.232	17.705	33.37	0.00	O
ATOM	709	N	LEU	A	178	-1.747	-10.045	15.885	30.21	0.00	N
ATOM	710	CA	LEU	A	178	-1.765	-11.195	14.931	30.21	0.00	C
ATOM	711	C	LEU	A	178	-3.082	-11.987	14.963	30.21	0.00	C
ATOM	712	O	LEU	A	178	-3.059	-13.216	14.908	30.21	0.00	O
ATOM	713	N	GLN	A	179	-4.195	-11.295	14.914	48.05	0.00	N
ATOM	714	CA	GLN	A	179	-5.488	-11.880	15.107	48.05	0.00	C
ATOM	715	C	GLN	A	179	-6.016	-12.818	14.022	48.05	0.00	C
ATOM	716	O	GLN	A	179	-6.283	-13.971	14.291	48.05	0.00	O
ATOM	717	N	ASN	A	180	-6.209	-12.312	12.822	39.77	0.00	N
ATOM	718	CA	ASN	A	180	-6.832	-13.100	11.723	39.77	0.00	C
ATOM	719	C	ASN	A	180	-5.958	-13.170	10.495	39.77	0.00	C
ATOM	720	O	ASN	A	180	-5.982	-12.302	9.632	39.77	0.00	O
ATOM	721	N	SER	A	181	-5.162	-14.213	10.431	58.29	0.00	N
ATOM	722	CA	SER	A	181	-4.294	-14.421	9.316	58.29	0.00	C
ATOM	723	C	SER	A	181	-4.685	-15.651	8.495	58.29	0.00	C
ATOM	724	O	SER	A	181	-4.793	-16.745	9.008	58.29	0.00	O
ATOM	725	N	PRO	A	182	-4.770	-15.497	7.199	63.56	0.00	N
ATOM	726	CA	PRO	A	182	-4.417	-14.305	6.461	63.56	0.00	C
ATOM	727	C	PRO	A	182	-5.557	-13.337	6.500	63.56	0.00	C
ATOM	728	O	PRO	A	182	-6.623	-13.675	7.004	63.56	0.00	O
ATOM	729	N	ARG	A	183	-5.357	-12.135	5.998	84.53	0.00	N
ATOM	730	CA	ARG	A	183	-6.436	-11.191	6.007	84.53	0.00	C
ATOM	731	C	ARG	A	183	-7.372	-11.579	4.893	84.53	0.00	C
ATOM	732	O	ARG	A	183	-8.603	-11.628	5.107	84.53	0.00	O
ATOM	733	N	PHE	A	184	-6.785	-11.851	3.718	54.72	0.00	N
ATOM	734	CA	PHE	A	184	-7.550	-12.410	2.590	54.72	0.00	C
ATOM	735	C	PHE	A	184	-7.017	-13.778	2.185	54.72	0.00	C
ATOM	736	O	PHE	A	184	-5.814	-14.039	2.233	54.72	0.00	O
ATOM	737	N	ASN	A	185	-7.926	-14.630	1.714	64.00	0.00	N
ATOM	738	CA	ASN	A	185	-7.604	-16.007	1.378	64.00	0.00	C
ATOM	739	C	ASN	A	185	-6.563	-16.229	0.291	64.00	0.00	C
ATOM	740	O	ASN	A	185	-5.857	-17.232	0.316	64.00	0.00	O
ATOM	741	N	TRP	A	186	-6.507	-15.349	-0.690	35.33	0.00	N
ATOM	742	CA	TRP	A	186	-5.602	-15.511	-1.821	35.33	0.00	C
ATOM	743	C	TRP	A	186	-4.124	-15.190	-1.442	35.33	0.00	C
ATOM	744	O	TRP	A	186	-3.168	-15.441	-2.207	35.33	0.00	O
ATOM	745	N	GLU	A	187	-3.932	-14.615	-0.259	83.66	0.00	N
ATOM	746	CA	GLU	A	187	-2.575	-14.179	0.176	83.66	0.00	C
ATOM	747	C	GLU	A	187	-1.511	-15.229	0.225	83.66	0.00	C
ATOM	748	O	GLU	A	187	-0.428	-15.028	-0.334	83.66	0.00	O
ATOM	749	N	CYS	A	188	-1.801	-16.352	0.884	55.50	0.00	N
ATOM	750	CA	CYS	A	188	-0.760	-17.344	1.180	55.50	0.00	C
ATOM	751	C	CYS	A	188	-0.146	-17.865	-0.127	55.50	0.00	C
ATOM	752	O	CYS	A	188	1.067	-18.120	-0.218	55.50	0.00	O
ATOM	753	N	LYS	A	189	-0.970	-17.963	-1.166	7.38	0.00	N
ATOM	754	CA	LYS	A	189	-0.511	-18.522	-2.447	7.38	0.00	C
ATOM	755	C	LYS	A	189	0.696	-17.731	-3.018	7.38	0.00	C
ATOM	756	O	LYS	A	189	1.569	-18.272	-3.724	7.38	0.00	O

ATOM	757	N	TYR	A	190	0.747	-16.439	-2.708	22.21	0.00	N
ATOM	758	CA	TYR	A	190	1.763	-15.611	-3.285	22.21	0.00	C
ATOM	759	C	TYR	A	190	2.819	-15.235	-2.248	22.21	0.00	C
ATOM	760	O	TYR	A	190	3.823	-14.654	-2.584	22.21	0.00	O
ATOM	761	N	CYS	A	191	2.587	-15.625	-0.997	36.59	0.00	N
ATOM	762	CA	CYS	A	191	3.353	-15.193	0.160	36.59	0.00	C
ATOM	763	C	CYS	A	191	4.692	-15.934	0.269	36.59	0.00	C
ATOM	764	O	CYS	A	191	4.732	-17.173	0.348	36.59	0.00	O
ATOM	765	N	ILE	A	192	5.784	-15.171	0.315	43.02	0.00	N
ATOM	766	CA	ILE	A	192	7.106	-15.776	0.279	43.02	0.00	C
ATOM	767	C	ILE	A	192	7.409	-16.403	1.615	43.02	0.00	C
ATOM	768	O	ILE	A	192	8.394	-17.068	1.711	43.02	0.00	O
ATOM	769	N	PHE	A	193	6.578	-16.191	2.632	49.91	0.00	N
ATOM	770	CA	PHE	A	193	6.786	-16.794	3.943	49.91	0.00	C
ATOM	771	C	PHE	A	193	5.984	-18.074	4.210	49.91	0.00	C
ATOM	772	O	PHE	A	193	5.990	-18.637	5.317	49.91	0.00	O
ATOM	773	N	SER	A	194	5.262	-18.513	3.198	41.94	0.00	N
ATOM	774	CA	SER	A	194	4.413	-19.711	3.328	41.94	0.00	C
ATOM	775	C	SER	A	194	5.249	-20.909	3.657	41.94	0.00	C
ATOM	776	O	SER	A	194	4.748	-21.746	4.298	41.94	0.00	O
ATOM	777	N	VAL	A	195	6.503	-20.952	3.199	53.52	0.00	N
ATOM	778	CA	VAL	A	195	7.410	-21.989	3.516	53.52	0.00	C
ATOM	779	C	VAL	A	195	7.733	-22.174	4.979	53.52	0.00	C
ATOM	780	O	VAL	A	195	8.309	-23.201	5.323	53.52	0.00	O
ATOM	781	N	ILE	A	196	7.419	-21.212	5.849	37.19	0.00	N
ATOM	782	CA	ILE	A	196	7.718	-21.354	7.295	37.19	0.00	C
ATOM	783	C	ILE	A	196	6.564	-20.975	8.148	37.19	0.00	C
ATOM	784	O	ILE	A	196	6.683	-20.972	9.331	37.19	0.00	O
ATOM	785	N	CYS	A	197	5.424	-20.671	7.561	45.29	0.00	N
ATOM	786	CA	CYS	A	197	4.335	-20.157	8.329	45.29	0.00	C
ATOM	787	C	CYS	A	197	3.331	-21.219	8.615	45.29	0.00	C
ATOM	788	O	CYS	A	197	2.836	-21.849	7.697	45.29	0.00	O
ATOM	789	N	PRO	A	198	2.960	-21.375	9.870	31.76	0.00	N
ATOM	790	CA	PRO	A	198	1.970	-22.338	10.280	31.76	0.00	C
ATOM	791	C	PRO	A	198	0.542	-22.046	9.971	31.76	0.00	C
ATOM	792	O	PRO	A	198	-0.290	-22.938	10.156	31.76	0.00	O
ATOM	793	N	ALA	A	199	0.227	-20.829	9.562	39.98	0.00	N
ATOM	794	CA	ALA	A	199	-1.167	-20.431	9.353	39.98	0.00	C
ATOM	795	C	ALA	A	199	-1.570	-20.467	7.877	39.98	0.00	C
ATOM	796	O	ALA	A	199	-2.731	-20.267	7.563	39.98	0.00	O
ATOM	797	N	LYS	A	200	-0.591	-20.655	6.991	26.21	0.00	N
ATOM	798	CA	LYS	A	200	-0.778	-20.823	5.548	26.21	0.00	C
ATOM	799	C	LYS	A	200	-1.946	-21.672	5.236	26.21	0.00	C
ATOM	800	O	LYS	A	200	-2.051	-22.735	5.769	26.21	0.00	O
ATOM	801	N	LEU	A	201	-2.799	-21.218	4.328	31.76	0.00	N
ATOM	802	CA	LEU	A	201	-3.935	-22.003	3.876	31.76	0.00	C
ATOM	803	C	LEU	A	201	-3.511	-23.046	2.859	31.76	0.00	C
ATOM	804	O	LEU	A	201	-2.649	-22.775	2.009	31.76	0.00	O
ATOM	805	N	THR	A	202	-4.127	-24.225	2.953	46.74	0.00	N
ATOM	806	CA	THR	A	202	-3.796	-25.369	2.082	46.74	0.00	C
ATOM	807	C	THR	A	202	-5.038	-25.920	1.370	46.74	0.00	C
ATOM	808	O	THR	A	202	-6.101	-25.964	1.999	46.74	0.00	O
TER	809		THR	A	202						
ENDMDL											
END											
REMARK	1	*****									
REMARK	1	Start File NAT_vs_DEC3_dSi_colored.pdb									
REMARK	1	The occupancy record was modified to represent dSi := Si(DEC)-Si(NAT).									
REMARK	1	Occ=0.00 means dSi=-1.285567 kB; Occ=99.99 means dSi=1.380460 kB.									
MODEL	0										
ATOM	1	N	MSE	A	1	23.268	-4.104	-18.521	40.19	0.00	N
ATOM	2	CA	MSE	A	1	23.439	-2.722	-18.016	40.19	0.00	C
ATOM	3	C	MSE	A	1	22.152	-2.161	-17.383	40.19	0.00	C
ATOM	4	O	MSE	A	1	22.147	-1.650	-16.252	40.19	0.00	O
ATOM	5	N	ILE	A	2	21.045	-2.254	-18.100	42.66	0.00	N
ATOM	6	CA	ILE	A	2	19.816	-1.632	-17.608	42.66	0.00	C
ATOM	7	C	ILE	A	2	19.269	-2.405	-16.412	42.66	0.00	C
ATOM	8	O	ILE	A	2	18.935	-1.835	-15.391	42.66	0.00	O
ATOM	9	N	THR	A	3	19.186	-3.703	-16.563	29.88	0.00	N
ATOM	10	CA	THR	A	3	18.718	-4.606	-15.498	29.88	0.00	C
ATOM	11	C	THR	A	3	19.478	-4.398	-14.212	29.88	0.00	C
ATOM	12	O	THR	A	3	18.884	-4.188	-13.150	29.88	0.00	O
ATOM	13	N	GLU	A	4	20.800	-4.447	-14.318	21.02	0.00	N
ATOM	14	CA	GLU	A	4	21.687	-4.148	-13.195	21.02	0.00	C
ATOM	15	C	GLU	A	4	21.342	-2.832	-12.484	21.02	0.00	C
ATOM	16	O	GLU	A	4	21.232	-2.791	-11.242	21.02	0.00	O
ATOM	17	N	PHE	A	5	21.133	-1.765	-13.247	47.14	0.00	N
ATOM	18	CA	PHE	A	5	20.826	-0.486	-12.602	47.14	0.00	C
ATOM	19	C	PHE	A	5	19.486	-0.520	-11.886	47.14	0.00	C
ATOM	20	O	PHE	A	5	19.415	-0.122	-10.736	47.14	0.00	O
ATOM	21	N	LEU	A	6	18.429	-1.039	-12.529	26.94	0.00	N
ATOM	22	CA	LEU	A	6	17.100	-1.072	-11.873	26.94	0.00	C
ATOM	23	C	LEU	A	6	17.119	-1.921	-10.586	26.94	0.00	C
ATOM	24	O	LEU	A	6	16.551	-1.545	-9.531	26.94	0.00	O
ATOM	25	N	LEU	A	7	17.767	-3.071	-10.672	35.53	0.00	N
ATOM	26	CA	LEU	A	7	17.843	-3.929	-9.486	35.53	0.00	C
ATOM	27	C	LEU	A	7	18.603	-3.241	-8.341	35.53	0.00	C
ATOM	28	O	LEU	A	7	18.190	-3.292	-7.184	35.53	0.00	O
ATOM	29	N	LYS	A	8	19.691	-2.566	-8.693	28.46	0.00	N
ATOM	30	CA	LYS	A	8	20.463	-1.856	-7.680	28.46	0.00	C
ATOM	31	C	LYS	A	8	19.628	-0.762	-7.044	28.46	0.00	C
ATOM	32	O	LYS	A	8	19.527	-0.688	-5.819	28.46	0.00	O

ATOM	33	N	LYS	A	9	18.947	0.036	-7.860	81.62	0.00	N
ATOM	34	CA	LYS	A	9	18.144	1.113	-7.292	81.62	0.00	C
ATOM	35	C	LYS	A	9	17.009	0.545	-6.471	81.62	0.00	C
ATOM	36	O	LYS	A	9	16.708	1.086	-5.402	81.62	0.00	O
ATOM	37	N	LYS	A	10	16.379	-0.547	-6.912	48.84	0.00	N
ATOM	38	CA	LYS	A	10	15.262	-1.072	-6.116	48.84	0.00	C
ATOM	39	C	LYS	A	10	15.660	-1.681	-4.726	48.84	0.00	C
ATOM	40	O	LYS	A	10	14.931	-1.547	-3.695	48.84	0.00	O
ATOM	41	N	LEU	A	11	16.798	-2.366	-4.699	40.34	0.00	N
ATOM	42	CA	LEU	A	11	17.328	-2.879	-3.411	40.34	0.00	C
ATOM	43	C	LEU	A	11	17.613	-1.686	-2.439	40.34	0.00	C
ATOM	44	O	LEU	A	11	17.179	-1.698	-1.270	40.34	0.00	O
ATOM	45	N	GLU	A	12	18.299	-0.655	-2.945	37.85	0.00	N
ATOM	46	CA	GLU	A	12	18.475	0.605	-2.181	37.85	0.00	C
ATOM	47	C	GLU	A	12	17.179	1.213	-1.616	37.85	0.00	C
ATOM	48	O	GLU	A	12	17.048	1.390	-0.426	37.85	0.00	O
ATOM	49	N	GLU	A	13	16.225	1.536	-2.461	55.83	0.00	N
ATOM	50	CA	GLU	A	13	14.901	1.950	-1.974	55.83	0.00	C
ATOM	51	C	GLU	A	13	14.358	1.037	-0.868	55.83	0.00	C
ATOM	52	O	GLU	A	13	13.966	1.505	0.190	55.83	0.00	O
ATOM	53	N	HIS	A	14	14.335	-0.267	-1.101	31.91	0.00	N
ATOM	54	CA	HIS	A	14	13.794	-1.199	-0.106	31.91	0.00	C
ATOM	55	C	HIS	A	14	14.560	-1.126	1.236	31.91	0.00	C
ATOM	56	O	HIS	A	14	13.970	-1.122	2.322	31.91	0.00	O
ATOM	57	N	LEU	A	15	15.884	-1.079	1.145	27.01	0.00	N
ATOM	58	CA	LEU	A	15	16.750	-1.011	2.322	27.01	0.00	C
ATOM	59	C	LEU	A	15	16.724	0.377	2.988	27.01	0.00	C
ATOM	60	O	LEU	A	15	17.114	0.492	4.140	27.01	0.00	O
ATOM	61	N	SER	A	16	16.283	1.421	2.277	43.85	0.00	N
ATOM	62	CA	SER	A	16	16.215	2.761	2.870	43.85	0.00	C
ATOM	63	C	SER	A	16	15.126	2.866	3.937	43.85	0.00	C
ATOM	64	O	SER	A	16	15.184	3.766	4.746	43.85	0.00	O
ATOM	65	N	HIS	A	17	14.126	1.987	3.905	38.37	0.00	N
ATOM	66	CA	HIS	A	17	12.931	2.175	4.710	38.37	0.00	C
ATOM	67	C	HIS	A	17	12.911	1.290	5.925	38.37	0.00	C
ATOM	68	O	HIS	A	17	12.211	0.285	5.939	38.37	0.00	O
ATOM	69	N	VAL	A	18	13.667	1.662	6.952	36.75	0.00	N
ATOM	70	CA	VAL	A	18	13.649	0.930	8.226	36.75	0.00	C
ATOM	71	C	VAL	A	18	12.455	1.416	9.073	36.75	0.00	C
ATOM	72	O	VAL	A	18	12.231	2.619	9.198	36.75	0.00	O
ATOM	73	N	LYS	A	19	11.711	0.480	9.654	47.79	0.00	N
ATOM	74	CA	LYS	A	19	10.394	0.738	10.251	47.79	0.00	C
ATOM	75	C	LYS	A	19	10.466	0.797	11.779	47.79	0.00	C
ATOM	76	O	LYS	A	19	11.024	-0.102	12.394	47.79	0.00	O
ATOM	77	N	GLU	A	20	9.892	1.832	12.391	14.56	0.00	N
ATOM	78	CA	GLU	A	20	10.003	2.007	13.848	14.56	0.00	C
ATOM	79	C	GLU	A	20	8.986	1.178	14.597	14.56	0.00	C
ATOM	80	O	GLU	A	20	7.952	0.808	14.049	14.56	0.00	O
ATOM	81	N	GLU	A	21	9.300	0.899	15.861	5.07	0.00	N
ATOM	82	CA	GLU	A	21	8.634	-0.168	16.607	5.07	0.00	C
ATOM	83	C	GLU	A	21	7.153	0.124	16.844	5.07	0.00	C
ATOM	84	O	GLU	A	21	6.369	-0.811	17.040	5.07	0.00	O
ATOM	85	N	ASN	A	22	6.774	1.399	16.808	50.91	0.00	N
ATOM	86	CA	ASN	A	22	5.371	1.790	16.970	50.91	0.00	C
ATOM	87	C	ASN	A	22	4.716	2.391	15.715	50.91	0.00	C
ATOM	88	O	ASN	A	22	3.648	3.000	15.824	50.91	0.00	O
ATOM	89	N	THR	A	23	5.339	2.269	14.540	46.08	0.00	N
ATOM	90	CA	THR	A	23	4.636	2.674	13.297	46.08	0.00	C
ATOM	91	C	THR	A	23	3.937	1.492	12.597	46.08	0.00	C
ATOM	92	O	THR	A	23	4.343	0.315	12.707	46.08	0.00	O
ATOM	93	N	ILE	A	24	2.863	1.841	11.907	51.79	0.00	N
ATOM	94	CA	ILE	A	24	2.133	0.908	11.089	51.79	0.00	C
ATOM	95	C	ILE	A	24	1.893	1.588	9.781	51.79	0.00	C
ATOM	96	O	ILE	A	24	1.270	2.646	9.760	51.79	0.00	O
ATOM	97	N	TYR	A	25	2.393	1.015	8.691	52.24	0.00	N
ATOM	98	CA	TYR	A	25	2.072	1.558	7.393	52.24	0.00	C
ATOM	99	C	TYR	A	25	0.609	1.246	7.051	52.24	0.00	C
ATOM	100	O	TYR	A	25	0.029	0.273	7.510	52.24	0.00	O
ATOM	101	N	VAL	A	26	0.019	2.088	6.230	68.16	0.00	N
ATOM	102	CA	VAL	A	26	-1.326	1.856	5.716	68.16	0.00	C
ATOM	103	C	VAL	A	26	-1.394	0.504	4.989	68.16	0.00	C
ATOM	104	O	VAL	A	26	-2.320	-0.244	5.138	68.16	0.00	O
ATOM	105	N	THR	A	27	-0.413	0.264	4.153	51.67	0.00	N
ATOM	106	CA	THR	A	27	-0.225	-0.940	3.432	51.67	0.00	C
ATOM	107	C	THR	A	27	-0.214	-2.155	4.325	51.67	0.00	C
ATOM	108	O	THR	A	27	-0.816	-3.189	4.005	51.67	0.00	O
ATOM	109	N	ASP	A	28	0.421	-2.066	5.476	63.07	0.00	N
ATOM	110	CA	ASP	A	28	0.217	-3.125	6.447	63.07	0.00	C
ATOM	111	C	ASP	A	28	-1.221	-3.366	6.899	63.07	0.00	C
ATOM	112	O	ASP	A	28	-1.560	-4.494	7.172	63.07	0.00	O
ATOM	113	N	LEU	A	29	-2.082	-2.355	6.958	61.09	0.00	N
ATOM	114	CA	LEU	A	29	-3.418	-2.565	7.521	61.09	0.00	C
ATOM	115	C	LEU	A	29	-4.304	-3.447	6.637	61.09	0.00	C
ATOM	116	O	LEU	A	29	-5.335	-3.962	7.065	61.09	0.00	O
ATOM	117	N	VAL	A	30	-3.930	-3.597	5.378	62.86	0.00	N
ATOM	118	CA	VAL	A	30	-4.776	-4.325	4.449	62.86	0.00	C
ATOM	119	C	VAL	A	30	-4.099	-5.619	4.014	62.86	0.00	C
ATOM	120	O	VAL	A	30	-4.413	-6.174	2.971	62.86	0.00	O
ATOM	121	N	ARG	A	31	-3.154	-6.069	4.828	99.99	0.00	N
ATOM	122	CA	ARG	A	31	-2.426	-7.287	4.613	99.99	0.00	C
ATOM	123	C	ARG	A	31	-2.433	-8.174	5.834	99.99	0.00	C
ATOM	124	O	ARG	A	31	-2.927	-7.806	6.907	99.99	0.00	O

ATOM	125	N	CYS	A	32	-1.955	-9.395	5.616	60.45	0.00	N
ATOM	126	CA	CYS	A	32	-1.910	-10.426	6.637	60.45	0.00	C
ATOM	127	C	CYS	A	32	-1.015	-9.951	7.770	60.45	0.00	C
ATOM	128	O	CYS	A	32	0.134	-9.567	7.534	60.45	0.00	O
ATOM	129	N	PRO	A	33	-1.508	-10.024	8.999	51.71	0.00	N
ATOM	130	CA	PRO	A	33	-0.664	-9.610	10.083	51.71	0.00	C
ATOM	131	C	PRO	A	33	0.611	-10.429	10.223	51.71	0.00	C
ATOM	132	O	PRO	A	33	1.694	-9.852	10.411	51.71	0.00	O
ATOM	133	N	ARG	A	34	0.512	-11.757	10.119	62.60	0.00	N
ATOM	134	CA	ARG	A	34	1.689	-12.574	10.256	62.60	0.00	C
ATOM	135	C	ARG	A	34	2.720	-12.198	9.218	62.60	0.00	C
ATOM	136	O	ARG	A	34	3.911	-12.267	9.453	62.60	0.00	O
ATOM	137	N	ARG	A	35	2.276	-11.837	8.033	46.60	0.00	N
ATOM	138	CA	ARG	A	35	3.238	-11.530	6.965	46.60	0.00	C
ATOM	139	C	ARG	A	35	3.971	-10.221	7.251	46.60	0.00	C
ATOM	140	O	ARG	A	35	5.151	-10.042	6.901	46.60	0.00	O
ATOM	141	N	VAL	A	36	3.228	-9.297	7.848	66.80	0.00	N
ATOM	142	CA	VAL	A	36	3.791	-7.981	8.175	66.80	0.00	C
ATOM	143	C	VAL	A	36	4.864	-8.200	9.230	66.80	0.00	C
ATOM	144	O	VAL	A	36	5.972	-7.734	9.085	66.80	0.00	O
ATOM	145	N	ARG	A	37	4.561	-8.972	10.259	57.00	0.00	N
ATOM	146	CA	ARG	A	37	5.600	-9.259	11.227	57.00	0.00	C
ATOM	147	C	ARG	A	37	6.749	-10.045	10.630	57.00	0.00	C
ATOM	148	O	ARG	A	37	7.879	-9.890	11.061	57.00	0.00	O
ATOM	149	N	TYR	A	38	6.481	-10.904	9.649	57.26	0.00	N
ATOM	150	CA	TYR	A	38	7.570	-11.660	9.036	57.26	0.00	C
ATOM	151	C	TYR	A	38	8.499	-10.724	8.363	57.26	0.00	C
ATOM	152	O	TYR	A	38	9.689	-10.942	8.377	57.26	0.00	O
ATOM	153	N	GLU	A	39	7.963	-9.678	7.760	53.99	0.00	N
ATOM	154	CA	GLU	A	39	8.816	-8.667	7.126	53.99	0.00	C
ATOM	155	C	GLU	A	39	9.769	-7.904	8.077	53.99	0.00	C
ATOM	156	O	GLU	A	39	10.773	-7.394	7.597	53.99	0.00	O
ATOM	157	N	SER	A	40	9.464	-7.844	9.380	43.00	0.00	N
ATOM	158	CA	SER	A	40	10.398	-7.338	10.412	43.00	0.00	C
ATOM	159	C	SER	A	40	11.345	-8.393	10.958	43.00	0.00	C
ATOM	160	O	SER	A	40	12.540	-8.130	11.114	43.00	0.00	O
ATOM	161	N	GLU	A	41	10.808	-9.578	11.263	45.51	0.00	N
ATOM	162	CA	GLU	A	41	11.604	-10.637	11.865	45.51	0.00	C
ATOM	163	C	GLU	A	41	12.456	-11.415	10.889	45.51	0.00	C
ATOM	164	O	GLU	A	41	13.321	-12.135	11.370	45.51	0.00	O
ATOM	165	N	TYR	A	42	12.238	-11.336	9.566	33.77	0.00	N
ATOM	166	CA	TYR	A	42	13.052	-12.135	8.586	33.77	0.00	C
ATOM	167	C	TYR	A	42	13.369	-11.290	7.378	33.77	0.00	C
ATOM	168	O	TYR	A	42	13.024	-11.599	6.196	33.77	0.00	O
ATOM	169	N	LYS	A	43	14.059	-10.210	7.691	72.52	0.00	N
ATOM	170	CA	LYS	A	43	14.286	-9.169	6.756	72.52	0.00	C
ATOM	171	C	LYS	A	43	15.175	-9.664	5.651	72.52	0.00	C
ATOM	172	O	LYS	A	43	15.118	-9.127	4.534	72.52	0.00	O
ATOM	173	N	GLU	A	44	16.024	-10.635	5.936	49.66	0.00	N
ATOM	174	CA	GLU	A	44	16.906	-11.087	4.887	49.66	0.00	C
ATOM	175	C	GLU	A	44	16.077	-11.799	3.791	49.66	0.00	C
ATOM	176	O	GLU	A	44	16.309	-11.615	2.572	49.66	0.00	O
ATOM	177	N	LEU	A	45	15.070	-12.551	4.234	32.70	0.00	N
ATOM	178	CA	LEU	A	45	14.177	-13.244	3.311	32.70	0.00	C
ATOM	179	C	LEU	A	45	13.268	-12.185	2.642	32.70	0.00	C
ATOM	180	O	LEU	A	45	13.095	-12.177	1.406	32.70	0.00	O
ATOM	181	N	ALA	A	46	12.710	-11.278	3.448	71.21	0.00	N
ATOM	182	CA	ALA	A	46	11.893	-10.178	2.897	71.21	0.00	C
ATOM	183	C	ALA	A	46	12.519	-9.534	1.649	71.21	0.00	C
ATOM	184	O	ALA	A	46	11.825	-9.262	0.709	71.21	0.00	O
ATOM	185	N	ILE	A	47	13.830	-9.341	1.634	54.66	0.00	N
ATOM	186	CA	ILE	A	47	14.526	-8.691	0.538	54.66	0.00	C
ATOM	187	C	ILE	A	47	14.299	-9.332	-0.838	54.66	0.00	C
ATOM	188	O	ILE	A	47	14.451	-8.669	-1.895	54.66	0.00	O
ATOM	189	N	SER	A	48	13.959	-10.620	-0.874	68.54	0.00	N
ATOM	190	CA	SER	A	48	13.715	-11.277	-2.169	68.54	0.00	C
ATOM	191	C	SER	A	48	12.509	-10.666	-2.882	68.54	0.00	C
ATOM	192	O	SER	A	48	12.401	-10.723	-4.108	68.54	0.00	O
ATOM	193	N	GLN	A	49	11.610	-10.068	-2.123	57.91	0.00	N
ATOM	194	CA	GLN	A	49	10.459	-9.434	-2.743	57.91	0.00	C
ATOM	195	C	GLN	A	49	10.847	-8.226	-3.623	57.91	0.00	C
ATOM	196	O	GLN	A	49	10.116	-7.889	-4.482	57.91	0.00	O
ATOM	197	N	VAL	A	50	12.031	-7.643	-3.424	53.84	0.00	N
ATOM	198	CA	VAL	A	50	12.659	-6.700	-4.358	53.84	0.00	C
ATOM	199	C	VAL	A	50	12.750	-7.176	-5.802	53.84	0.00	C
ATOM	200	O	VAL	A	50	12.805	-6.373	-6.754	53.84	0.00	O
ATOM	201	N	TYR	A	51	12.865	-8.468	-5.991	36.40	0.00	N
ATOM	202	CA	TYR	A	51	13.231	-8.953	-7.306	36.40	0.00	C
ATOM	203	C	TYR	A	51	12.000	-9.515	-8.013	36.40	0.00	C
ATOM	204	O	TYR	A	51	12.116	-10.179	-9.031	36.40	0.00	O
ATOM	205	N	ALA	A	52	10.823	-9.258	-7.445	43.22	0.00	N
ATOM	206	CA	ALA	A	52	9.580	-9.586	-8.075	43.22	0.00	C
ATOM	207	C	ALA	A	52	9.375	-8.694	-9.336	43.22	0.00	C
ATOM	208	O	ALA	A	52	9.152	-7.478	-9.216	43.22	0.00	O
ATOM	209	N	PRO	A	53	9.401	-9.282	-10.541	57.51	0.00	N
ATOM	210	CA	PRO	A	53	9.338	-8.519	-11.804	57.51	0.00	C
ATOM	211	C	PRO	A	53	8.051	-7.715	-11.969	57.51	0.00	C
ATOM	212	O	PRO	A	53	8.107	-6.662	-12.589	57.51	0.00	O
ATOM	213	N	SER	A	54	6.912	-8.185	-11.428	25.24	0.00	N
ATOM	214	CA	SER	A	54	5.662	-7.382	-11.372	25.24	0.00	C
ATOM	215	C	SER	A	54	5.807	-6.143	-10.551	25.24	0.00	C
ATOM	216	O	SER	A	54	5.159	-5.116	-10.806	25.24	0.00	O

ATOM	217	N	ALA	A	55	6.666	-6.210	-9.534	34.28	0.00	N
ATOM	218	CA	ALA	A	55	6.871	-5.023	-8.707	34.28	0.00	C
ATOM	219	C	ALA	A	55	7.756	-4.055	-9.490	34.28	0.00	C
ATOM	220	O	ALA	A	55	7.598	-2.860	-9.403	34.28	0.00	O
ATOM	221	N	ILE	A	56	8.662	-4.543	-10.314	33.53	0.00	N
ATOM	222	CA	ILE	A	56	9.562	-3.610	-11.005	33.53	0.00	C
ATOM	223	C	ILE	A	56	8.724	-2.964	-12.115	33.53	0.00	C
ATOM	224	O	ILE	A	56	8.790	-1.755	-12.348	33.53	0.00	O
ATOM	225	N	LEU	A	57	7.912	-3.805	-12.760	18.72	0.00	N
ATOM	226	CA	LEU	A	57	6.935	-3.366	-13.747	18.72	0.00	C
ATOM	227	C	LEU	A	57	6.033	-2.336	-13.087	18.72	0.00	C
ATOM	228	O	LEU	A	57	5.874	-1.207	-13.590	18.72	0.00	O
ATOM	229	N	GLY	A	58	5.483	-2.701	-11.946	37.26	0.00	N
ATOM	230	CA	GLY	A	58	4.634	-1.806	-11.182	37.26	0.00	C
ATOM	231	C	GLY	A	58	5.258	-0.473	-10.875	37.26	0.00	C
ATOM	232	O	GLY	A	58	4.607	0.560	-11.036	37.26	0.00	O
ATOM	233	N	ASP	A	59	6.514	-0.439	-10.443	27.71	0.00	N
ATOM	234	CA	ASP	A	59	7.150	0.844	-10.105	27.71	0.00	C
ATOM	235	C	ASP	A	59	7.486	1.775	-11.275	27.71	0.00	C
ATOM	236	O	ASP	A	59	7.461	2.943	-11.121	27.71	0.00	O
ATOM	237	N	ILE	A	60	7.874	1.212	-12.405	13.66	0.00	N
ATOM	238	CA	ILE	A	60	8.072	1.923	-13.651	13.66	0.00	C
ATOM	239	C	ILE	A	60	6.774	2.586	-14.133	13.66	0.00	C
ATOM	240	O	ILE	A	60	6.798	3.761	-14.559	13.66	0.00	O
ATOM	241	N	LEU	A	61	5.641	1.870	-14.058	31.03	0.00	N
ATOM	242	CA	LEU	A	61	4.334	2.454	-14.392	31.03	0.00	C
ATOM	243	C	LEU	A	61	4.024	3.653	-13.537	31.03	0.00	C
ATOM	244	O	LEU	A	61	3.668	4.678	-14.050	31.03	0.00	O
ATOM	245	N	HIS	A	62	4.172	3.508	-12.232	54.69	0.00	N
ATOM	246	CA	HIS	A	62	3.968	4.616	-11.306	54.69	0.00	C
ATOM	247	C	HIS	A	62	4.884	5.714	-11.684	54.69	0.00	C
ATOM	248	O	HIS	A	62	4.443	6.854	-11.841	54.69	0.00	O
ATOM	249	N	LEU	A	63	6.158	5.423	-11.888	12.94	0.00	N
ATOM	250	CA	LEU	A	63	7.034	6.526	-12.325	12.94	0.00	C
ATOM	251	C	LEU	A	63	6.405	7.217	-13.537	12.94	0.00	C
ATOM	252	O	LEU	A	63	6.167	8.394	-13.497	12.94	0.00	O
ATOM	253	N	GLY	A	64	6.109	6.499	-14.603	20.96	0.00	N
ATOM	254	CA	GLY	A	64	5.719	7.158	-15.811	20.96	0.00	C
ATOM	255	C	GLY	A	64	4.400	7.890	-15.740	20.96	0.00	C
ATOM	256	O	GLY	A	64	4.174	8.755	-16.509	20.96	0.00	O
ATOM	257	N	LEU	A	65	3.499	7.454	-14.886	35.09	0.00	N
ATOM	258	CA	LEU	A	65	2.129	7.928	-14.922	35.09	0.00	C
ATOM	259	C	LEU	A	65	2.136	9.075	-13.968	35.09	0.00	C
ATOM	260	O	LEU	A	65	1.699	10.153	-14.266	35.09	0.00	O
ATOM	261	N	GLU	A	66	2.672	8.845	-12.789	79.25	0.00	N
ATOM	262	CA	GLU	A	66	3.061	9.970	-11.943	79.25	0.00	C
ATOM	263	C	GLU	A	66	3.702	11.154	-12.688	79.25	0.00	C
ATOM	264	O	GLU	A	66	3.297	12.272	-12.436	79.25	0.00	O
ATOM	265	N	SER	A	67	4.665	10.981	-13.581	33.56	0.00	N
ATOM	266	CA	SER	A	67	5.183	12.221	-14.250	33.56	0.00	C
ATOM	267	C	SER	A	67	4.100	13.012	-15.067	33.56	0.00	C
ATOM	268	O	SER	A	67	4.182	14.248	-15.203	33.56	0.00	O
ATOM	269	N	VAL	A	68	3.091	12.293	-15.600	22.61	0.00	N
ATOM	270	CA	VAL	A	68	1.939	12.934	-16.238	22.61	0.00	C
ATOM	271	C	VAL	A	68	1.158	13.773	-15.231	22.61	0.00	C
ATOM	272	O	VAL	A	68	0.645	14.865	-15.520	22.61	0.00	O
ATOM	273	N	LEU	A	69	1.040	13.216	-14.047	39.64	0.00	N
ATOM	274	CA	LEU	A	69	0.261	13.818	-13.004	39.64	0.00	C
ATOM	275	C	LEU	A	69	0.848	15.118	-12.430	39.64	0.00	C
ATOM	276	O	LEU	A	69	0.134	15.992	-11.952	39.64	0.00	O
ATOM	277	N	LYS	A	70	2.165	15.215	-12.445	56.21	0.00	N
ATOM	278	CA	LYS	A	70	2.860	16.356	-11.911	56.21	0.00	C
ATOM	279	C	LYS	A	70	2.708	17.450	-12.934	56.21	0.00	C
ATOM	280	O	LYS	A	70	2.497	18.596	-12.562	56.21	0.00	O
ATOM	281	N	GLY	A	71	2.769	17.105	-14.229	41.93	0.00	N
ATOM	282	CA	GLY	A	71	2.550	18.111	-15.305	41.93	0.00	C
ATOM	283	C	GLY	A	71	1.130	18.685	-15.376	41.93	0.00	C
ATOM	284	O	GLY	A	71	0.821	19.815	-14.923	41.93	0.00	O
ATOM	285	N	ASN	A	72	0.217	17.876	-15.876	45.44	0.00	N
ATOM	286	CA	ASN	A	72	-1.095	18.370	-16.206	45.44	0.00	C
ATOM	287	C	ASN	A	72	-2.040	18.612	-15.074	45.44	0.00	C
ATOM	288	O	ASN	A	72	-2.921	19.420	-15.211	45.44	0.00	O
ATOM	289	N	PHE	A	73	-1.880	17.933	-13.966	59.09	0.00	N
ATOM	290	CA	PHE	A	73	-2.766	18.118	-12.847	59.09	0.00	C
ATOM	291	C	PHE	A	73	-2.091	18.771	-11.639	59.09	0.00	C
ATOM	292	O	PHE	A	73	-2.674	18.861	-10.593	59.09	0.00	O
ATOM	293	N	ASN	A	74	-0.838	19.166	-11.735	50.33	0.00	N
ATOM	294	CA	ASN	A	74	-0.201	19.781	-10.582	50.33	0.00	C
ATOM	295	C	ASN	A	74	-0.355	18.949	-9.279	50.33	0.00	C
ATOM	296	O	ASN	A	74	-0.590	19.474	-8.165	50.33	0.00	O
ATOM	297	N	ALA	A	75	-0.160	17.641	-9.414	51.14	0.00	N
ATOM	298	CA	ALA	A	75	-0.115	16.792	-8.245	51.14	0.00	C
ATOM	299	C	ALA	A	75	1.282	16.777	-7.622	51.14	0.00	C
ATOM	300	O	ALA	A	75	2.270	16.992	-8.289	51.14	0.00	O
ATOM	301	N	GLU	A	76	1.336	16.530	-6.332	46.53	0.00	N
ATOM	302	CA	GLU	A	76	2.559	16.069	-5.695	46.53	0.00	C
ATOM	303	C	GLU	A	76	2.544	14.546	-5.834	46.53	0.00	C
ATOM	304	O	GLU	A	76	1.466	13.957	-5.865	46.53	0.00	O
ATOM	305	N	THR	A	77	3.710	13.915	-5.909	53.48	0.00	N
ATOM	306	CA	THR	A	77	3.794	12.484	-6.087	53.48	0.00	C
ATOM	307	C	THR	A	77	4.639	11.898	-4.978	53.48	0.00	C
ATOM	308	O	THR	A	77	5.510	12.566	-4.500	53.48	0.00	O

ATOM	309	N	GLU	A	78	4.321	10.666	-4.562	67.11	0.00	N
ATOM	310	CA	GLU	A	78	4.988	9.920	-3.517	67.11	0.00	C
ATOM	311	C	GLU	A	78	5.020	10.703	-2.232	67.11	0.00	C
ATOM	312	O	GLU	A	78	6.063	10.936	-1.623	67.11	0.00	O
ATOM	313	N	VAL	A	79	3.826	11.074	-1.816	53.82	0.00	N
ATOM	314	CA	VAL	A	79	3.635	12.010	-0.767	53.82	0.00	C
ATOM	315	C	VAL	A	79	3.474	11.303	0.544	53.82	0.00	C
ATOM	316	O	VAL	A	79	2.510	10.573	0.774	53.82	0.00	O
ATOM	317	N	GLU	A	80	4.416	11.580	1.421	38.92	0.00	N
ATOM	318	CA	GLU	A	80	4.530	10.857	2.668	38.92	0.00	C
ATOM	319	C	GLU	A	80	3.901	11.655	3.780	38.92	0.00	C
ATOM	320	O	GLU	A	80	4.090	12.840	3.853	38.92	0.00	O
ATOM	321	N	THR	A	81	3.177	11.027	4.670	38.45	0.00	N
ATOM	322	CA	THR	A	81	2.510	11.744	5.761	38.45	0.00	C
ATOM	323	C	THR	A	81	2.133	10.811	6.884	38.45	0.00	C
ATOM	324	O	THR	A	81	2.164	9.597	6.754	38.45	0.00	O
ATOM	325	N	LEU	A	82	1.667	11.373	7.976	48.62	0.00	N
ATOM	326	CA	LEU	A	82	1.644	10.601	9.202	48.62	0.00	C
ATOM	327	C	LEU	A	82	0.492	11.060	10.035	48.62	0.00	C
ATOM	328	O	LEU	A	82	0.098	12.203	9.950	48.62	0.00	O
ATOM	329	N	ARG	A	83	-0.124	10.141	10.761	25.29	0.00	N
ATOM	330	CA	ARG	A	83	-1.326	10.449	11.518	25.29	0.00	C
ATOM	331	C	ARG	A	83	-1.368	9.467	12.659	25.29	0.00	C
ATOM	332	O	ARG	A	83	-0.926	8.327	12.512	25.29	0.00	O
ATOM	333	N	GLU	A	84	-1.873	9.890	13.809	20.97	0.00	N
ATOM	334	CA	GLU	A	84	-1.727	9.022	14.978	20.97	0.00	C
ATOM	335	C	GLU	A	84	-3.042	8.425	15.425	20.97	0.00	C
ATOM	336	O	GLU	A	84	-4.110	8.996	15.183	20.97	0.00	O
ATOM	337	N	ILE	A	85	-2.918	7.275	16.095	55.92	0.00	N
ATOM	338	CA	ILE	A	85	-4.029	6.451	16.449	55.92	0.00	C
ATOM	339	C	ILE	A	85	-3.781	5.841	17.813	55.92	0.00	C
ATOM	340	O	ILE	A	85	-2.643	5.507	18.123	55.92	0.00	O
ATOM	341	N	ASN	A	86	-4.840	5.701	18.619	48.27	0.00	N
ATOM	342	CA	ASN	A	86	-4.761	5.021	19.937	48.27	0.00	C
ATOM	343	C	ASN	A	86	-5.250	3.566	19.895	48.27	0.00	C
ATOM	344	O	ASN	A	86	-6.399	3.293	19.511	48.27	0.00	O
ATOM	345	N	VAL	A	87	-4.383	2.645	20.322	38.64	0.00	N
ATOM	346	CA	VAL	A	87	-4.703	1.227	20.308	38.64	0.00	C
ATOM	347	C	VAL	A	87	-4.355	0.547	21.630	38.64	0.00	C
ATOM	348	O	VAL	A	87	-3.230	0.067	21.819	38.64	0.00	O
ATOM	349	N	GLY	A	88	-5.321	0.484	22.542	47.04	0.00	N
ATOM	350	CA	GLY	A	88	-5.066	-0.115	23.865	47.04	0.00	C
ATOM	351	C	GLY	A	88	-4.192	0.803	24.708	47.04	0.00	C
ATOM	352	O	GLY	A	88	-3.216	0.373	25.351	47.04	0.00	O
ATOM	353	N	GLY	A	89	-4.538	2.089	24.663	51.00	0.00	N
ATOM	354	CA	GLY	A	89	-3.780	3.124	25.348	51.00	0.00	C
ATOM	355	C	GLY	A	89	-2.339	3.328	24.890	51.00	0.00	C
ATOM	356	O	GLY	A	89	-1.668	4.231	25.406	51.00	0.00	O
ATOM	357	N	LYS	A	90	-1.846	2.502	23.956	53.00	0.00	N
ATOM	358	CA	LYS	A	90	-0.547	2.733	23.318	53.00	0.00	C
ATOM	359	C	LYS	A	90	-0.830	3.651	22.138	53.00	0.00	C
ATOM	360	O	LYS	A	90	-1.881	3.541	21.497	53.00	0.00	O
ATOM	361	N	VAL	A	91	0.069	4.592	21.872	47.74	0.00	N
ATOM	362	CA	VAL	A	91	-0.106	5.503	20.744	47.74	0.00	C
ATOM	363	C	VAL	A	91	0.675	4.963	19.561	47.74	0.00	C
ATOM	364	O	VAL	A	91	1.817	4.523	19.727	47.74	0.00	O
ATOM	365	N	TYR	A	92	0.052	5.005	18.377	54.10	0.00	N
ATOM	366	CA	TYR	A	92	0.676	4.480	17.190	54.10	0.00	C
ATOM	367	C	TYR	A	92	0.645	5.490	16.087	54.10	0.00	C
ATOM	368	O	TYR	A	92	-0.329	6.191	15.893	54.10	0.00	O
ATOM	369	N	LYS	A	93	1.747	5.547	15.371	52.22	0.00	N
ATOM	370	CA	LYS	A	93	1.859	6.412	14.217	52.22	0.00	C
ATOM	371	C	LYS	A	93	1.524	5.603	12.955	52.22	0.00	C
ATOM	372	O	LYS	A	93	2.270	4.714	12.581	52.22	0.00	O
ATOM	373	N	ILE	A	94	0.406	5.927	12.320	51.93	0.00	N
ATOM	374	CA	ILE	A	94	0.084	5.372	11.038	51.93	0.00	C
ATOM	375	C	ILE	A	94	0.743	6.184	9.929	51.93	0.00	C
ATOM	376	O	ILE	A	94	0.556	7.385	9.807	51.93	0.00	O
ATOM	377	N	LYS	A	95	1.497	5.507	9.097	70.68	0.00	N
ATOM	378	CA	LYS	A	95	2.305	6.166	8.106	70.68	0.00	C
ATOM	379	C	LYS	A	95	1.950	5.702	6.699	70.68	0.00	C
ATOM	380	O	LYS	A	95	1.760	4.545	6.470	70.68	0.00	O
ATOM	381	N	GLY	A	96	1.853	6.613	5.743	49.96	0.00	N
ATOM	382	CA	GLY	A	96	1.572	6.242	4.383	49.96	0.00	C
ATOM	383	C	GLY	A	96	2.142	7.179	3.378	49.96	0.00	C
ATOM	384	O	GLY	A	96	2.537	8.280	3.703	49.96	0.00	O
ATOM	385	N	ARG	A	97	2.107	6.740	2.138	30.60	0.00	N
ATOM	386	CA	ARG	A	97	2.693	7.428	1.007	30.60	0.00	C
ATOM	387	C	ARG	A	97	1.769	7.206	-0.178	30.60	0.00	C
ATOM	388	O	ARG	A	97	1.672	6.084	-0.699	30.60	0.00	O
ATOM	389	N	ALA	A	98	1.104	8.281	-0.588	43.89	0.00	N
ATOM	390	CA	ALA	A	98	0.117	8.243	-1.592	43.89	0.00	C
ATOM	391	C	ALA	A	98	0.862	8.383	-2.906	43.89	0.00	C
ATOM	392	O	ALA	A	98	1.855	9.097	-3.010	43.89	0.00	O
ATOM	393	N	ASP	A	99	0.424	7.673	-3.912	66.23	0.00	N
ATOM	394	CA	ASP	A	99	1.076	7.754	-5.196	66.23	0.00	C
ATOM	395	C	ASP	A	99	0.974	9.188	-5.720	66.23	0.00	C
ATOM	396	O	ASP	A	99	1.922	9.707	-6.350	66.23	0.00	O
ATOM	397	N	ALA	A	100	-0.166	9.846	-5.513	61.99	0.00	N
ATOM	398	CA	ALA	A	100	-0.251	11.269	-5.953	61.99	0.00	C
ATOM	399	C	ALA	A	100	-1.290	11.992	-5.184	61.99	0.00	C
ATOM	400	O	ALA	A	100	-2.232	11.366	-4.731	61.99	0.00	O

ATOM	401	N	ILE	A	101	-1.104	13.303	-4.998	70.75	0.00	N
ATOM	402	CA	ILE	A	101	-2.137	14.137	-4.384	70.75	0.00	C
ATOM	403	C	ILE	A	101	-2.390	15.420	-5.140	70.75	0.00	C
ATOM	404	O	ILE	A	101	-1.467	16.143	-5.558	70.75	0.00	O
ATOM	405	N	ILE	A	102	-3.672	15.695	-5.329	38.77	0.00	N
ATOM	406	CA	ILE	A	102	-4.083	17.004	-5.796	38.77	0.00	C
ATOM	407	C	ILE	A	102	-4.628	17.765	-4.581	38.77	0.00	C
ATOM	408	O	ILE	A	102	-5.695	17.431	-4.073	38.77	0.00	O
ATOM	409	N	ARG	A	103	-3.845	18.751	-4.103	47.14	0.00	N
ATOM	410	CA	ARG	A	103	-4.150	19.504	-2.879	47.14	0.00	C
ATOM	411	C	ARG	A	103	-5.423	20.391	-2.949	47.14	0.00	C
ATOM	412	O	ARG	A	103	-6.199	20.482	-1.960	47.14	0.00	O
ATOM	413	N	ASN	A	104	-5.626	21.051	-4.095	50.55	0.00	N
ATOM	414	CA	ASN	A	104	-6.745	21.998	-4.259	50.55	0.00	C
ATOM	415	C	ASN	A	104	-7.230	21.994	-5.679	50.55	0.00	C
ATOM	416	O	ASN	A	104	-6.693	22.692	-6.538	50.55	0.00	O
ATOM	417	N	ASP	A	105	-8.253	21.174	-5.879	44.17	0.00	N
ATOM	418	CA	ASP	A	105	-9.039	21.134	-7.084	44.17	0.00	C
ATOM	419	C	ASP	A	105	-10.471	21.605	-6.714	44.17	0.00	C
ATOM	420	O	ASP	A	105	-11.262	20.843	-6.158	44.17	0.00	O
ATOM	421	N	ASN	A	106	-10.768	22.878	-6.986	47.42	0.00	N
ATOM	422	CA	ASN	A	106	-12.040	23.506	-6.575	47.42	0.00	C
ATOM	423	C	ASN	A	106	-12.422	23.321	-5.104	47.42	0.00	C
ATOM	424	O	ASN	A	106	-13.561	23.020	-4.774	47.42	0.00	O
ATOM	425	N	GLY	A	107	-11.470	23.524	-4.215	50.23	0.00	N
ATOM	426	CA	GLY	A	107	-11.717	23.337	-2.789	50.23	0.00	C
ATOM	427	C	GLY	A	107	-11.737	21.883	-2.335	50.23	0.00	C
ATOM	428	O	GLY	A	107	-12.404	21.544	-1.352	50.23	0.00	O
ATOM	429	N	LYS	A	108	-11.008	21.019	-3.043	19.82	0.00	N
ATOM	430	CA	LYS	A	108	-10.915	19.615	-2.668	19.82	0.00	C
ATOM	431	C	LYS	A	108	-9.483	19.049	-2.884	19.82	0.00	C
ATOM	432	O	LYS	A	108	-8.779	19.403	-3.839	19.82	0.00	O
ATOM	433	N	SER	A	109	-9.039	18.236	-1.933	46.23	0.00	N
ATOM	434	CA	SER	A	109	-7.862	17.387	-2.118	46.23	0.00	C
ATOM	435	C	SER	A	109	-8.308	16.067	-2.739	46.23	0.00	C
ATOM	436	O	SER	A	109	-9.315	15.517	-2.353	46.23	0.00	O
ATOM	437	N	ILE	A	110	-7.524	15.551	-3.650	49.84	0.00	N
ATOM	438	CA	ILE	A	110	-7.790	14.265	-4.209	49.84	0.00	C
ATOM	439	C	ILE	A	110	-6.588	13.343	-3.999	49.84	0.00	C
ATOM	440	O	ILE	A	110	-5.512	13.629	-4.510	49.84	0.00	O
ATOM	441	N	VAL	A	111	-6.752	12.243	-3.266	62.91	0.00	N
ATOM	442	CA	VAL	A	111	-5.679	11.220	-3.198	62.91	0.00	C
ATOM	443	C	VAL	A	111	-5.836	10.276	-4.388	62.91	0.00	C
ATOM	444	O	VAL	A	111	-6.932	9.764	-4.636	62.91	0.00	O
ATOM	445	N	ILE	A	112	-4.775	10.018	-5.128	58.29	0.00	N
ATOM	446	CA	ILE	A	112	-4.866	9.126	-6.282	58.29	0.00	C
ATOM	447	C	ILE	A	112	-4.010	7.894	-6.056	58.29	0.00	C
ATOM	448	O	ILE	A	112	-2.842	8.019	-5.770	58.29	0.00	O
ATOM	449	N	GLU	A	113	-4.547	6.709	-6.243	83.80	0.00	N
ATOM	450	CA	GLU	A	113	-3.780	5.455	-6.060	83.80	0.00	C
ATOM	451	C	GLU	A	113	-3.823	4.710	-7.388	83.80	0.00	C
ATOM	452	O	GLU	A	113	-4.882	4.569	-8.052	83.80	0.00	O
ATOM	453	N	ILE	A	114	-2.657	4.354	-7.861	47.53	0.00	N
ATOM	454	CA	ILE	A	114	-2.531	3.758	-9.150	47.53	0.00	C
ATOM	455	C	ILE	A	114	-2.210	2.295	-8.960	47.53	0.00	C
ATOM	456	O	ILE	A	114	-1.423	1.954	-8.099	47.53	0.00	O
ATOM	457	N	LYS	A	115	-2.787	1.433	-9.786	61.71	0.00	N
ATOM	458	CA	LYS	A	115	-2.621	0.003	-9.616	61.71	0.00	C
ATOM	459	C	LYS	A	115	-2.438	-0.643	-10.947	61.71	0.00	C
ATOM	460	O	LYS	A	115	-2.964	-0.176	-11.951	61.71	0.00	O
ATOM	461	N	THR	A	116	-1.684	-1.729	-10.958	35.95	0.00	N
ATOM	462	CA	THR	A	116	-1.468	-2.466	-12.194	35.95	0.00	C
ATOM	463	C	THR	A	116	-1.602	-3.921	-11.890	35.95	0.00	C
ATOM	464	O	THR	A	116	-1.369	-4.337	-10.804	35.95	0.00	O
ATOM	465	N	SER	A	117	-2.085	-4.706	-12.802	31.53	0.00	N
ATOM	466	CA	SER	A	117	-2.109	-6.154	-12.601	31.53	0.00	C
ATOM	467	C	SER	A	117	-2.180	-6.692	-13.946	31.53	0.00	C
ATOM	468	O	SER	A	117	-2.324	-5.911	-14.909	31.53	0.00	O
ATOM	469	N	ARG	A	118	-2.032	-8.006	-14.033	55.43	0.00	N
ATOM	470	CA	ARG	A	118	-2.068	-8.640	-15.363	55.43	0.00	C
ATOM	471	C	ARG	A	118	-3.471	-8.928	-15.862	55.43	0.00	C
ATOM	472	O	ARG	A	118	-3.648	-9.162	-17.069	55.43	0.00	O
ATOM	473	N	SER	A	119	-4.457	-8.893	-14.965	29.24	0.00	N
ATOM	474	CA	SER	A	119	-5.872	-9.062	-15.362	29.24	0.00	C
ATOM	475	C	SER	A	119	-6.800	-7.967	-14.770	29.24	0.00	C
ATOM	476	O	SER	A	119	-6.533	-7.439	-13.690	29.24	0.00	O
ATOM	477	N	ASP	A	120	-7.938	-7.766	-15.424	36.70	0.00	N
ATOM	478	CA	ASP	A	120	-8.922	-6.789	-15.023	36.70	0.00	C
ATOM	479	C	ASP	A	120	-10.062	-7.464	-14.339	36.70	0.00	C
ATOM	480	O	ASP	A	120	-11.180	-6.930	-14.286	36.70	0.00	O
ATOM	481	N	LYS	A	121	-9.805	-8.622	-13.800	43.60	0.00	N
ATOM	482	CA	LYS	A	121	-10.861	-9.343	-13.147	43.60	0.00	C
ATOM	483	C	LYS	A	121	-11.305	-8.719	-11.850	43.60	0.00	C
ATOM	484	O	LYS	A	121	-10.493	-8.415	-10.994	43.60	0.00	O
ATOM	485	N	GLY	A	122	-12.595	-8.552	-11.661	49.91	0.00	N
ATOM	486	CA	GLY	A	122	-13.099	-8.150	-10.341	49.91	0.00	C
ATOM	487	C	GLY	A	122	-12.816	-6.695	-9.897	49.91	0.00	C
ATOM	488	O	GLY	A	122	-13.062	-6.363	-8.702	49.91	0.00	O
ATOM	489	N	LEU	A	123	-12.369	-5.819	-10.826	46.62	0.00	N
ATOM	490	CA	LEU	A	123	-12.047	-4.418	-10.440	46.62	0.00	C
ATOM	491	C	LEU	A	123	-13.261	-3.672	-9.972	46.62	0.00	C
ATOM	492	O	LEU	A	123	-14.252	-3.694	-10.654	46.62	0.00	O

ATOM	493	N	PRO	A	124	-13.153	-2.951	-8.838	73.97	0.00	N
ATOM	494	CA	PRO	A	124	-11.936	-2.786	-8.048	73.97	0.00	C
ATOM	495	C	PRO	A	124	-11.854	-3.776	-6.934	73.97	0.00	C
ATOM	496	O	PRO	A	124	-12.861	-4.122	-6.314	73.97	0.00	O
ATOM	497	N	LEU	A	125	-10.645	-4.184	-6.634	23.98	0.00	N
ATOM	498	CA	LEU	A	125	-10.394	-5.171	-5.542	23.98	0.00	C
ATOM	499	C	LEU	A	125	-10.497	-4.530	-4.149	23.98	0.00	C
ATOM	500	O	LEU	A	125	-10.112	-3.350	-3.908	23.98	0.00	O
ATOM	501	N	ILE	A	126	-11.048	-5.276	-3.221	38.08	0.00	N
ATOM	502	CA	ILE	A	126	-11.528	-4.647	-1.996	38.08	0.00	C
ATOM	503	C	ILE	A	126	-10.339	-4.126	-1.167	38.08	0.00	C
ATOM	504	O	ILE	A	126	-10.462	-3.123	-0.513	38.08	0.00	O
ATOM	505	N	HIS	A	127	-9.195	-4.779	-1.251	29.29	0.00	N
ATOM	506	CA	HIS	A	127	-8.055	-4.383	-0.479	29.29	0.00	C
ATOM	507	C	HIS	A	127	-7.440	-3.163	-1.103	29.29	0.00	C
ATOM	508	O	HIS	A	127	-6.834	-2.382	-0.415	29.29	0.00	O
ATOM	509	N	HIS	A	128	-7.592	-2.980	-2.400	39.69	0.00	N
ATOM	510	CA	HIS	A	128	-7.176	-1.718	-3.018	39.69	0.00	C
ATOM	511	C	HIS	A	128	-8.083	-0.558	-2.609	39.69	0.00	C
ATOM	512	O	HIS	A	128	-7.606	0.554	-2.368	39.69	0.00	O
ATOM	513	N	LYS	A	129	-9.365	-0.803	-2.526	27.03	0.00	N
ATOM	514	CA	LYS	A	129	-10.266	0.264	-2.198	27.03	0.00	C
ATOM	515	C	LYS	A	129	-10.028	0.593	-0.745	27.03	0.00	C
ATOM	516	O	LYS	A	129	-9.930	1.747	-0.408	27.03	0.00	O
ATOM	517	N	MSE	A	130	-9.911	-0.410	0.128	40.21	0.00	N
ATOM	518	CA	MSE	A	130	-9.661	-0.122	1.564	40.21	0.00	C
ATOM	519	C	MSE	A	130	-8.432	0.772	1.739	40.21	0.00	C
ATOM	520	O	MSE	A	130	-8.445	1.649	2.550	40.21	0.00	O
ATOM	521	N	GLN	A	131	-7.394	0.520	0.958	46.26	0.00	N
ATOM	522	CA	GLN	A	131	-6.133	1.211	1.097	46.26	0.00	C
ATOM	523	C	GLN	A	131	-6.400	2.668	0.780	46.26	0.00	C
ATOM	524	O	GLN	A	131	-5.918	3.542	1.460	46.26	0.00	O
ATOM	525	N	LEU	A	132	-7.195	2.936	-0.242	48.70	0.00	N
ATOM	526	CA	LEU	A	132	-7.436	4.290	-0.682	48.70	0.00	C
ATOM	527	C	LEU	A	132	-8.295	4.984	0.347	48.70	0.00	C
ATOM	528	O	LEU	A	132	-8.142	6.173	0.629	48.70	0.00	O
ATOM	529	N	GLN	A	133	-9.173	4.244	0.963	49.66	0.00	N
ATOM	530	CA	GLN	A	133	-10.034	4.835	1.951	49.66	0.00	C
ATOM	531	C	GLN	A	133	-9.306	5.181	3.263	49.66	0.00	C
ATOM	532	O	GLN	A	133	-9.739	6.050	4.021	49.66	0.00	O
ATOM	533	N	ILE	A	134	-8.240	4.450	3.561	54.32	0.00	N
ATOM	534	CA	ILE	A	134	-7.448	4.750	4.709	54.32	0.00	C
ATOM	535	C	ILE	A	134	-6.635	6.008	4.375	54.32	0.00	C
ATOM	536	O	ILE	A	134	-6.604	6.904	5.182	54.32	0.00	O
ATOM	537	N	TYR	A	135	-5.993	6.089	3.200	55.17	0.00	N
ATOM	538	CA	TYR	A	135	-5.308	7.299	2.832	55.17	0.00	C
ATOM	539	C	TYR	A	135	-6.263	8.486	3.003	55.17	0.00	C
ATOM	540	O	TYR	A	135	-5.876	9.536	3.592	55.17	0.00	O
ATOM	541	N	LEU	A	136	-7.510	8.345	2.563	51.61	0.00	N
ATOM	542	CA	LEU	A	136	-8.431	9.472	2.663	51.61	0.00	C
ATOM	543	C	LEU	A	136	-8.471	9.988	4.123	51.61	0.00	C
ATOM	544	O	LEU	A	136	-8.423	11.193	4.364	51.61	0.00	O
ATOM	545	N	TRP	A	137	-8.562	9.085	5.079	40.90	0.00	N
ATOM	546	CA	TRP	A	137	-8.471	9.465	6.480	40.90	0.00	C
ATOM	547	C	TRP	A	137	-7.090	10.092	6.781	40.90	0.00	C
ATOM	548	O	TRP	A	137	-6.988	11.182	7.363	40.90	0.00	O
ATOM	549	N	LEU	A	138	-6.039	9.457	6.283	23.53	0.00	N
ATOM	550	CA	LEU	A	138	-4.665	9.881	6.616	23.53	0.00	C
ATOM	551	C	LEU	A	138	-4.353	11.332	6.246	23.53	0.00	C
ATOM	552	O	LEU	A	138	-3.806	12.080	7.039	23.53	0.00	O
ATOM	553	N	PHE	A	139	-4.725	11.691	5.030	31.22	0.00	N
ATOM	554	CA	PHE	A	139	-4.602	13.020	4.511	31.22	0.00	C
ATOM	555	C	PHE	A	139	-5.790	13.890	4.834	31.22	0.00	C
ATOM	556	O	PHE	A	139	-5.772	15.074	4.508	31.22	0.00	O
ATOM	557	N	SER	A	140	-6.827	13.321	5.474	30.40	0.00	N
ATOM	558	CA	SER	A	140	-8.140	13.999	5.608	30.40	0.00	C
ATOM	559	C	SER	A	140	-8.590	14.636	4.304	30.40	0.00	C
ATOM	560	O	SER	A	140	-8.961	15.800	4.273	30.40	0.00	O
ATOM	561	N	ALA	A	141	-8.519	13.878	3.227	38.58	0.00	N
ATOM	562	CA	ALA	A	141	-8.945	14.332	1.917	38.58	0.00	C
ATOM	563	C	ALA	A	141	-10.405	13.939	1.667	38.58	0.00	C
ATOM	564	O	ALA	A	141	-10.983	13.084	2.348	38.58	0.00	O
ATOM	565	N	GLU	A	142	-11.035	14.621	0.722	0.00	0.00	N
ATOM	566	CA	GLU	A	142	-12.471	14.427	0.489	0.00	0.00	C
ATOM	567	C	GLU	A	142	-12.738	13.477	-0.702	0.00	0.00	C
ATOM	568	O	GLU	A	142	-13.747	12.791	-0.707	0.00	0.00	O
ATOM	569	N	LYS	A	143	-11.805	13.444	-1.660	66.08	0.00	N
ATOM	570	CA	LYS	A	143	-11.916	12.652	-2.862	66.08	0.00	C
ATOM	571	C	LYS	A	143	-10.727	11.686	-3.055	66.08	0.00	C
ATOM	572	O	LYS	A	143	-9.539	11.991	-2.732	66.08	0.00	O
ATOM	573	N	GLY	A	144	-11.077	10.526	-3.602	60.83	0.00	N
ATOM	574	CA	GLY	A	144	-10.120	9.474	-3.925	60.83	0.00	C
ATOM	575	C	GLY	A	144	-10.352	8.924	-5.300	60.83	0.00	C
ATOM	576	O	GLY	A	144	-11.486	8.740	-5.697	60.83	0.00	O
ATOM	577	N	ILE	A	145	-9.286	8.679	-6.041	72.37	0.00	N
ATOM	578	CA	ILE	A	145	-9.380	8.016	-7.325	72.37	0.00	C
ATOM	579	C	ILE	A	145	-8.437	6.791	-7.270	72.37	0.00	C
ATOM	580	O	ILE	A	145	-7.274	6.920	-6.924	72.37	0.00	O
ATOM	581	N	LEU	A	146	-8.955	5.621	-7.649	57.82	0.00	N
ATOM	582	CA	LEU	A	146	-8.233	4.396	-7.797	57.82	0.00	C
ATOM	583	C	LEU	A	146	-8.251	4.098	-9.279	57.82	0.00	C
ATOM	584	O	LEU	A	146	-9.304	3.843	-9.816	57.82	0.00	O



ATOM	585	N	VAL	A	147	-7.117	4.065	-9.937	49.59	0.00	N
ATOM	586	CA	VAL	A	147	-7.059	3.872	-11.356	49.59	0.00	C
ATOM	587	C	VAL	A	147	-6.211	2.623	-11.646	49.59	0.00	C
ATOM	588	O	VAL	A	147	-5.067	2.470	-11.090	49.59	0.00	O
ATOM	589	N	TYR	A	148	-6.742	1.739	-12.509	53.71	0.00	N
ATOM	590	CA	TYR	A	148	-6.090	0.482	-12.844	53.71	0.00	C
ATOM	591	C	TYR	A	148	-5.595	0.575	-14.257	53.71	0.00	C
ATOM	592	O	TYR	A	148	-6.345	0.903	-15.117	53.71	0.00	O
ATOM	593	N	ILE	A	149	-4.338	0.293	-14.483	38.41	0.00	N
ATOM	594	CA	ILE	A	149	-3.766	0.206	-15.807	38.41	0.00	C
ATOM	595	C	ILE	A	149	-3.430	-1.275	-15.990	38.41	0.00	C
ATOM	596	O	ILE	A	149	-2.545	-1.776	-15.346	38.41	0.00	O
ATOM	597	N	THR	A	150	-4.180	-2.003	-16.800	57.09	0.00	N
ATOM	598	CA	THR	A	150	-3.964	-3.413	-16.968	57.09	0.00	C
ATOM	599	C	THR	A	150	-3.936	-3.690	-18.433	57.09	0.00	C
ATOM	600	O	THR	A	150	-4.311	-2.846	-19.222	57.09	0.00	O
ATOM	601	N	PRO	A	151	-3.486	-4.859	-18.836	48.53	0.00	N
ATOM	602	CA	PRO	A	151	-3.299	-5.051	-20.300	48.53	0.00	C
ATOM	603	C	PRO	A	151	-4.601	-5.273	-21.077	48.53	0.00	C
ATOM	604	O	PRO	A	151	-4.598	-5.259	-22.317	48.53	0.00	O
ATOM	605	N	ASP	A	152	-5.658	-5.505	-20.333	47.48	0.00	N
ATOM	606	CA	ASP	A	152	-6.988	-5.753	-20.794	47.48	0.00	C
ATOM	607	C	ASP	A	152	-7.910	-4.564	-20.707	47.48	0.00	C
ATOM	608	O	ASP	A	152	-8.921	-4.561	-21.326	47.48	0.00	O
ATOM	609	N	ARG	A	153	-7.550	-3.582	-19.909	75.55	0.00	N
ATOM	610	CA	ARG	A	153	-8.418	-2.528	-19.517	75.55	0.00	C
ATOM	611	C	ARG	A	153	-7.808	-1.437	-18.658	75.55	0.00	C
ATOM	612	O	ARG	A	153	-7.169	-1.665	-17.715	75.55	0.00	O
ATOM	613	N	ILE	A	154	-8.107	-0.221	-18.973	47.28	0.00	N
ATOM	614	CA	ILE	A	154	-7.873	0.874	-18.098	47.28	0.00	C
ATOM	615	C	ILE	A	154	-9.177	1.197	-17.432	47.28	0.00	C
ATOM	616	O	ILE	A	154	-10.135	1.182	-18.066	47.28	0.00	O
ATOM	617	N	ALA	A	155	-9.204	1.463	-16.150	49.85	0.00	N
ATOM	618	CA	ALA	A	155	-10.490	1.563	-15.403	49.85	0.00	C
ATOM	619	C	ALA	A	155	-10.307	2.411	-14.178	49.85	0.00	C
ATOM	620	O	ALA	A	155	-9.405	2.165	-13.464	49.85	0.00	O
ATOM	621	N	GLU	A	156	-11.159	3.389	-13.945	57.54	0.00	N
ATOM	622	CA	GLU	A	156	-10.959	4.392	-12.924	57.54	0.00	C
ATOM	623	C	GLU	A	156	-12.193	4.455	-12.023	57.54	0.00	C
ATOM	624	O	GLU	A	156	-13.299	4.455	-12.446	57.54	0.00	O
ATOM	625	N	TYR	A	157	-11.976	4.532	-10.746	56.62	0.00	N
ATOM	626	CA	TYR	A	157	-13.044	4.493	-9.764	56.62	0.00	C
ATOM	627	C	TYR	A	157	-12.934	5.658	-8.804	56.62	0.00	C
ATOM	628	O	TYR	A	157	-11.853	6.011	-8.265	56.62	0.00	O
ATOM	629	N	GLU	A	158	-14.055	6.253	-8.542	49.97	0.00	N
ATOM	630	CA	GLU	A	158	-14.108	7.361	-7.646	49.97	0.00	C
ATOM	631	C	GLU	A	158	-14.532	6.786	-6.302	49.97	0.00	C
ATOM	632	O	GLU	A	158	-15.602	6.184	-6.178	49.97	0.00	O
ATOM	633	N	ILE	A	159	-13.651	6.902	-5.311	52.35	0.00	N
ATOM	634	CA	ILE	A	159	-13.878	6.419	-3.939	52.35	0.00	C
ATOM	635	C	ILE	A	159	-13.755	7.649	-3.027	52.35	0.00	C
ATOM	636	O	ILE	A	159	-12.671	8.212	-2.918	52.35	0.00	O
ATOM	637	N	ASN	A	160	-14.849	8.038	-2.394	52.16	0.00	N
ATOM	638	CA	ASN	A	160	-14.894	9.274	-1.638	52.16	0.00	C
ATOM	639	C	ASN	A	160	-15.165	9.116	-0.146	52.16	0.00	C
ATOM	640	O	ASN	A	160	-14.949	10.056	0.594	52.16	0.00	O
ATOM	641	N	GLU	A	161	-15.536	7.926	0.306	24.33	0.00	N
ATOM	642	CA	GLU	A	161	-15.720	7.704	1.724	24.33	0.00	C
ATOM	643	C	GLU	A	161	-14.467	7.151	2.407	24.33	0.00	C
ATOM	644	O	GLU	A	161	-13.997	6.052	2.116	24.33	0.00	O
ATOM	645	N	PRO	A	162	-13.950	7.900	3.365	48.62	0.00	N
ATOM	646	CA	PRO	A	162	-12.848	7.426	4.187	48.62	0.00	C
ATOM	647	C	PRO	A	162	-13.323	6.439	5.227	48.62	0.00	C
ATOM	648	O	PRO	A	162	-14.483	6.537	5.645	48.62	0.00	O
ATOM	649	N	LEU	A	163	-12.444	5.517	5.661	50.64	0.00	N
ATOM	650	CA	LEU	A	163	-12.805	4.572	6.724	50.64	0.00	C
ATOM	651	C	LEU	A	163	-12.888	5.346	8.019	50.64	0.00	C
ATOM	652	O	LEU	A	163	-12.040	6.223	8.266	50.64	0.00	O
ATOM	653	N	ASP	A	164	-13.876	5.013	8.858	13.03	0.00	N
ATOM	654	CA	ASP	A	164	-13.934	5.590	10.207	13.03	0.00	C
ATOM	655	C	ASP	A	164	-12.616	5.280	10.928	13.03	0.00	C
ATOM	656	O	ASP	A	164	-11.940	4.300	10.622	13.03	0.00	O
ATOM	657	N	GLU	A	165	-12.301	6.090	11.926	52.58	0.00	N
ATOM	658	CA	GLU	A	165	-11.127	5.880	12.758	52.58	0.00	C
ATOM	659	C	GLU	A	165	-11.240	4.594	13.565	52.58	0.00	C
ATOM	660	O	GLU	A	165	-10.265	3.923	13.761	52.58	0.00	O
ATOM	661	N	ALA	A	166	-12.438	4.252	14.016	52.45	0.00	N
ATOM	662	CA	ALA	A	166	-12.662	3.006	14.753	52.45	0.00	C
ATOM	663	C	ALA	A	166	-12.336	1.750	13.921	52.45	0.00	C
ATOM	664	O	ALA	A	166	-11.761	0.808	14.415	52.45	0.00	O
ATOM	665	N	THR	A	167	-12.694	1.751	12.648	22.42	0.00	N
ATOM	666	CA	THR	A	167	-12.382	0.638	11.768	22.42	0.00	C
ATOM	667	C	THR	A	167	-10.872	0.497	11.623	22.42	0.00	C
ATOM	668	O	THR	A	167	-10.346	-0.601	11.637	22.42	0.00	O
ATOM	669	N	ILE	A	168	-10.171	1.619	11.528	46.72	0.00	N
ATOM	670	CA	ILE	A	168	-8.732	1.633	11.358	46.72	0.00	C
ATOM	671	C	ILE	A	168	-8.078	1.128	12.626	46.72	0.00	C
ATOM	672	O	ILE	A	168	-7.058	0.457	12.570	46.72	0.00	O
ATOM	673	N	VAL	A	169	-8.665	1.441	13.778	48.67	0.00	N
ATOM	674	CA	VAL	A	169	-8.132	0.957	15.026	48.67	0.00	C
ATOM	675	C	VAL	A	169	-8.314	-0.550	15.039	48.67	0.00	C
ATOM	676	O	VAL	A	169	-7.394	-1.257	15.440	48.67	0.00	O

ATOM	677	N	ARG	A	170	-9.472	-1.045	14.590	4.85	0.00	N
ATOM	678	CA	ARG	A	170	-9.700	-2.518	14.528	4.85	0.00	C
ATOM	679	C	ARG	A	170	-8.661	-3.202	13.604	4.85	0.00	C
ATOM	680	O	ARG	A	170	-8.069	-4.207	13.996	4.85	0.00	O
ATOM	681	N	LEU	A	171	-8.396	-2.610	12.430	35.06	0.00	N
ATOM	682	CA	LEU	A	171	-7.379	-3.127	11.527	35.06	0.00	C
ATOM	683	C	LEU	A	171	-6.020	-3.139	12.210	35.06	0.00	C
ATOM	684	O	LEU	A	171	-5.257	-4.108	12.109	35.06	0.00	O
ATOM	685	N	ALA	A	172	-5.723	-2.049	12.909	35.22	0.00	N
ATOM	686	CA	ALA	A	172	-4.457	-1.898	13.604	35.22	0.00	C
ATOM	687	C	ALA	A	172	-4.301	-2.947	14.696	35.22	0.00	C
ATOM	688	O	ALA	A	172	-3.240	-3.541	14.801	35.22	0.00	O
ATOM	689	N	GLU	A	173	-5.352	-3.187	15.479	57.67	0.00	N
ATOM	690	CA	GLU	A	173	-5.292	-4.177	16.568	57.67	0.00	C
ATOM	691	C	GLU	A	173	-4.915	-5.559	16.053	57.67	0.00	C
ATOM	692	O	GLU	A	173	-4.131	-6.255	16.707	57.67	0.00	O
ATOM	693	N	ASP	A	174	-5.506	-5.961	14.919	41.81	0.00	N
ATOM	694	CA	ASP	A	174	-5.208	-7.255	14.320	41.81	0.00	C
ATOM	695	C	ASP	A	174	-3.815	-7.301	13.840	41.81	0.00	C
ATOM	696	O	ASP	A	174	-3.169	-8.343	13.873	41.81	0.00	O
ATOM	697	N	THR	A	175	-3.325	-6.165	13.384	37.60	0.00	N
ATOM	698	CA	THR	A	175	-1.966	-6.171	12.887	37.60	0.00	C
ATOM	699	C	THR	A	175	-1.026	-6.460	14.019	37.60	0.00	C
ATOM	700	O	THR	A	175	-0.104	-7.267	13.894	37.60	0.00	O
ATOM	701	N	ILE	A	176	-1.312	-5.827	15.139	46.10	0.00	N
ATOM	702	CA	ILE	A	176	-0.456	-5.907	16.306	46.10	0.00	C
ATOM	703	C	ILE	A	176	-0.618	-7.264	17.013	46.10	0.00	C
ATOM	704	O	ILE	A	176	0.348	-7.982	17.191	46.10	0.00	O
ATOM	705	N	MSE	A	177	-1.846	-7.622	17.359	53.53	0.00	N
ATOM	706	CA	MSE	A	177	-2.110	-8.862	18.066	53.53	0.00	C
ATOM	707	C	MSE	A	177	-2.036	-10.148	17.184	53.53	0.00	C
ATOM	708	O	MSE	A	177	-2.230	-11.232	17.705	53.53	0.00	O
ATOM	709	N	LEU	A	178	-1.747	-10.045	15.885	54.52	0.00	N
ATOM	710	CA	LEU	A	178	-1.765	-11.195	14.931	54.52	0.00	C
ATOM	711	C	LEU	A	178	-3.082	-11.987	14.963	54.52	0.00	C
ATOM	712	O	LEU	A	178	-3.059	-13.216	14.908	54.52	0.00	O
ATOM	713	N	GLN	A	179	-4.195	-11.295	14.914	9.65	0.00	N
ATOM	714	CA	GLN	A	179	-5.488	-11.880	15.107	9.65	0.00	C
ATOM	715	C	GLN	A	179	-6.016	-12.818	14.022	9.65	0.00	C
ATOM	716	O	GLN	A	179	-6.283	-13.971	14.291	9.65	0.00	O
ATOM	717	N	ASN	A	180	-6.209	-12.312	12.822	36.56	0.00	N
ATOM	718	CA	ASN	A	180	-6.832	-13.100	11.723	36.56	0.00	C
ATOM	719	C	ASN	A	180	-5.958	-13.170	10.495	36.56	0.00	C
ATOM	720	O	ASN	A	180	-5.982	-12.302	9.632	36.56	0.00	O
ATOM	721	N	SER	A	181	-5.162	-14.213	10.431	54.59	0.00	N
ATOM	722	CA	SER	A	181	-4.294	-14.421	9.316	54.59	0.00	C
ATOM	723	C	SER	A	181	-4.685	-15.651	8.495	54.59	0.00	C
ATOM	724	O	SER	A	181	-4.793	-16.745	9.008	54.59	0.00	O
ATOM	725	N	PRO	A	182	-4.770	-15.497	7.199	58.07	0.00	N
ATOM	726	CA	PRO	A	182	-4.417	-14.305	6.461	58.07	0.00	C
ATOM	727	C	PRO	A	182	-5.557	-13.337	6.500	58.07	0.00	C
ATOM	728	O	PRO	A	182	-6.623	-13.675	7.004	58.07	0.00	O
ATOM	729	N	ARG	A	183	-5.357	-12.135	5.998	45.05	0.00	N
ATOM	730	CA	ARG	A	183	-6.436	-11.191	6.007	45.05	0.00	C
ATOM	731	C	ARG	A	183	-7.372	-11.579	4.893	45.05	0.00	C
ATOM	732	O	ARG	A	183	-8.603	-11.628	5.107	45.05	0.00	O
ATOM	733	N	PHE	A	184	-6.785	-11.851	3.718	40.86	0.00	N
ATOM	734	CA	PHE	A	184	-7.550	-12.410	2.590	40.86	0.00	C
ATOM	735	C	PHE	A	184	-7.017	-13.778	2.185	40.86	0.00	C
ATOM	736	O	PHE	A	184	-5.814	-14.039	2.233	40.86	0.00	O
ATOM	737	N	ASN	A	185	-7.926	-14.630	1.714	41.19	0.00	N
ATOM	738	CA	ASN	A	185	-7.604	-16.007	1.378	41.19	0.00	C
ATOM	739	C	ASN	A	185	-6.563	-16.229	0.291	41.19	0.00	C
ATOM	740	O	ASN	A	185	-5.857	-17.232	0.316	41.19	0.00	O
ATOM	741	N	TRP	A	186	-6.507	-15.349	-0.690	25.29	0.00	N
ATOM	742	CA	TRP	A	186	-5.602	-15.511	-1.821	25.29	0.00	C
ATOM	743	C	TRP	A	186	-4.124	-15.190	-1.442	25.29	0.00	C
ATOM	744	O	TRP	A	186	-3.168	-15.441	-2.207	25.29	0.00	O
ATOM	745	N	GLU	A	187	-3.932	-14.615	-0.259	93.17	0.00	N
ATOM	746	CA	GLU	A	187	-2.575	-14.179	0.176	93.17	0.00	C
ATOM	747	C	GLU	A	187	-1.511	-15.229	0.225	93.17	0.00	C
ATOM	748	O	GLU	A	187	-0.428	-15.028	-0.334	93.17	0.00	O
ATOM	749	N	CYS	A	188	-1.801	-16.352	0.884	43.08	0.00	N
ATOM	750	CA	CYS	A	188	-0.760	-17.344	1.180	43.08	0.00	C
ATOM	751	C	CYS	A	188	-0.146	-17.865	-0.127	43.08	0.00	C
ATOM	752	O	CYS	A	188	1.067	-18.120	-0.218	43.08	0.00	O
ATOM	753	N	LYS	A	189	-0.970	-17.963	-1.166	45.12	0.00	N
ATOM	754	CA	LYS	A	189	-0.511	-18.522	-2.447	45.12	0.00	C
ATOM	755	C	LYS	A	189	0.696	-17.731	-3.018	45.12	0.00	C
ATOM	756	O	LYS	A	189	1.569	-18.272	-3.724	45.12	0.00	O
ATOM	757	N	TYR	A	190	0.747	-16.439	-2.708	37.47	0.00	N
ATOM	758	CA	TYR	A	190	1.763	-15.611	-3.285	37.47	0.00	C
ATOM	759	C	TYR	A	190	2.819	-15.235	-2.248	37.47	0.00	C
ATOM	760	O	TYR	A	190	3.823	-14.654	-2.584	37.47	0.00	O
ATOM	761	N	CYS	A	191	2.587	-15.625	-0.997	32.14	0.00	N
ATOM	762	CA	CYS	A	191	3.353	-15.193	0.160	32.14	0.00	C
ATOM	763	C	CYS	A	191	4.692	-15.934	0.269	32.14	0.00	C
ATOM	764	O	CYS	A	191	4.732	-17.173	0.348	32.14	0.00	O
ATOM	765	N	ILE	A	192	5.784	-15.171	0.315	21.11	0.00	N
ATOM	766	CA	ILE	A	192	7.106	-15.776	0.279	21.11	0.00	C
ATOM	767	C	ILE	A	192	7.409	-16.403	1.615	21.11	0.00	C
ATOM	768	O	ILE	A	192	8.394	-17.068	1.711	21.11	0.00	O

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ATOM 769 N PHE A 193 6.578 -16.191 2.632 33.12 0.00 N
ATOM 770 CA PHE A 193 6.786 -16.794 3.943 33.12 0.00 C
ATOM 771 C PHE A 193 5.984 -18.074 4.210 33.12 0.00 C
ATOM 772 O PHE A 193 5.990 -18.637 5.317 33.12 0.00 O
ATOM 773 N SER A 194 5.262 -18.513 3.198 47.00 0.00 N
ATOM 774 CA SER A 194 4.413 -19.711 3.328 47.00 0.00 C
ATOM 775 C SER A 194 5.249 -20.909 3.657 47.00 0.00 C
ATOM 776 O SER A 194 4.748 -21.746 4.298 47.00 0.00 O
ATOM 777 N VAL A 195 6.503 -20.952 3.199 41.00 0.00 N
ATOM 778 CA VAL A 195 7.410 -21.989 3.516 41.00 0.00 C
ATOM 779 C VAL A 195 7.733 -22.174 4.979 41.00 0.00 C
ATOM 780 O VAL A 195 8.309 -23.201 5.323 41.00 0.00 O
ATOM 781 N ILE A 196 7.419 -21.212 5.849 42.60 0.00 N
ATOM 782 CA ILE A 196 7.718 -21.354 7.295 42.60 0.00 C
ATOM 783 C ILE A 196 6.564 -20.975 8.148 42.60 0.00 C
ATOM 784 O ILE A 196 6.683 -20.972 9.331 42.60 0.00 O
ATOM 785 N CYS A 197 5.424 -20.671 7.561 52.08 0.00 N
ATOM 786 CA CYS A 197 4.335 -20.157 8.329 52.08 0.00 C
ATOM 787 C CYS A 197 3.331 -21.219 8.615 52.08 0.00 C
ATOM 788 O CYS A 197 2.836 -21.849 7.697 52.08 0.00 O
ATOM 789 N PRO A 198 2.960 -21.375 9.870 46.10 0.00 N
ATOM 790 CA PRO A 198 1.970 -22.338 10.280 46.10 0.00 C
ATOM 791 C PRO A 198 0.542 -22.046 9.971 46.10 0.00 C
ATOM 792 O PRO A 198 -0.290 -22.938 10.156 46.10 0.00 O
ATOM 793 N ALA A 199 0.227 -20.829 9.562 29.17 0.00 N
ATOM 794 CA ALA A 199 -1.167 -20.431 9.353 29.17 0.00 C
ATOM 795 C ALA A 199 -1.570 -20.467 7.877 29.17 0.00 C
ATOM 796 O ALA A 199 -2.731 -20.267 7.563 29.17 0.00 O
ATOM 797 N LYS A 200 -0.591 -20.655 6.991 51.72 0.00 N
ATOM 798 CA LYS A 200 -0.778 -20.823 5.548 51.72 0.00 C
ATOM 799 C LYS A 200 -1.946 -21.672 5.236 51.72 0.00 C
ATOM 800 O LYS A 200 -2.051 -22.735 5.769 51.72 0.00 O
ATOM 801 N LEU A 201 -2.799 -21.218 4.328 46.35 0.00 N
ATOM 802 CA LEU A 201 -3.935 -22.003 3.876 46.35 0.00 C
ATOM 803 C LEU A 201 -3.511 -23.046 2.859 46.35 0.00 C
ATOM 804 O LEU A 201 -2.649 -22.775 2.009 46.35 0.00 O
ATOM 805 N THR A 202 -4.127 -24.225 2.953 44.58 0.00 N
ATOM 806 CA THR A 202 -3.796 -25.369 2.082 44.58 0.00 C
ATOM 807 C THR A 202 -5.038 -25.920 1.370 44.58 0.00 C
ATOM 808 O THR A 202 -6.101 -25.964 1.999 44.58 0.00 O
TER 809 THR A 202
ENDMDL
END
REMARK 1 *****
REMARK 1 Start File NAT_vs_DEC4_dSi_colored.pdb
REMARK 1 The occupancy record was modified to represent dSi := Si(DEC)-Si(NAT).
REMARK 1 Occ=0.00 means dSi=-1.484741 kB; Occ=99.99 means dSi=1.546813 kB.
MODEL
O
ATOM 1 N MSE A 1 23.268 -4.104 -18.521 48.49 0.00 N
ATOM 2 CA MSE A 1 23.439 -2.722 -18.016 48.49 0.00 C
ATOM 3 C MSE A 1 22.152 -2.161 -17.383 48.49 0.00 C
ATOM 4 O MSE A 1 22.147 -1.650 -16.252 48.49 0.00 O
ATOM 5 N ILE A 2 21.045 -2.254 -18.100 39.73 0.00 N
ATOM 6 CA ILE A 2 19.816 -1.632 -17.608 39.73 0.00 C
ATOM 7 C ILE A 2 19.269 -2.405 -16.412 39.73 0.00 C
ATOM 8 O ILE A 2 18.935 -1.835 -15.391 39.73 0.00 O
ATOM 9 N THR A 3 19.186 -3.703 -16.563 54.25 0.00 N
ATOM 10 CA THR A 3 18.718 -4.606 -15.498 54.25 0.00 C
ATOM 11 C THR A 3 19.478 -4.398 -14.212 54.25 0.00 C
ATOM 12 O THR A 3 18.884 -4.188 -13.150 54.25 0.00 O
ATOM 13 N GLU A 4 20.800 -4.447 -14.318 44.58 0.00 N
ATOM 14 CA GLU A 4 21.687 -4.148 -13.195 44.58 0.00 C
ATOM 15 C GLU A 4 21.342 -2.832 -12.484 44.58 0.00 C
ATOM 16 O GLU A 4 21.232 -2.791 -11.242 44.58 0.00 O
ATOM 17 N PHE A 5 21.133 -1.765 -13.247 52.03 0.00 N
ATOM 18 CA PHE A 5 20.826 -0.486 -12.602 52.03 0.00 C
ATOM 19 C PHE A 5 19.486 -0.520 -11.886 52.03 0.00 C
ATOM 20 O PHE A 5 19.415 -0.122 -10.736 52.03 0.00 O
ATOM 21 N LEU A 6 18.429 -1.039 -12.529 45.33 0.00 N
ATOM 22 CA LEU A 6 17.100 -1.072 -11.873 45.33 0.00 C
ATOM 23 C LEU A 6 17.119 -1.921 -10.586 45.33 0.00 C
ATOM 24 O LEU A 6 16.551 -1.545 -9.531 45.33 0.00 O
ATOM 25 N LEU A 7 17.767 -3.071 -10.672 34.02 0.00 N
ATOM 26 CA LEU A 7 17.843 -3.929 -9.486 34.02 0.00 C
ATOM 27 C LEU A 7 18.603 -3.241 -8.341 34.02 0.00 C
ATOM 28 O LEU A 7 18.190 -3.292 -7.184 34.02 0.00 O
ATOM 29 N LYS A 8 19.691 -2.566 -8.693 38.58 0.00 N
ATOM 30 CA LYS A 8 20.463 -1.856 -7.680 38.58 0.00 C
ATOM 31 C LYS A 8 19.628 -0.762 -7.044 38.58 0.00 C
ATOM 32 O LYS A 8 19.527 -0.688 -5.819 38.58 0.00 O
ATOM 33 N LYS A 9 18.947 0.036 -7.860 37.09 0.00 N
ATOM 34 CA LYS A 9 18.144 1.113 -7.292 37.09 0.00 C
ATOM 35 C LYS A 9 17.009 0.545 -6.471 37.09 0.00 C
ATOM 36 O LYS A 9 16.708 1.086 -5.402 37.09 0.00 O
ATOM 37 N LYS A 10 16.379 -0.547 -6.912 45.03 0.00 N
ATOM 38 CA LYS A 10 15.262 -1.072 -6.116 45.03 0.00 C
ATOM 39 C LYS A 10 15.660 -1.681 -4.726 45.03 0.00 C
ATOM 40 O LYS A 10 14.931 -1.547 -3.695 45.03 0.00 O
ATOM 41 N LEU A 11 16.798 -2.366 -4.699 27.27 0.00 N
ATOM 42 CA LEU A 11 17.328 -2.879 -3.411 27.27 0.00 C
ATOM 43 C LEU A 11 17.613 -1.686 -2.439 27.27 0.00 C
ATOM 44 O LEU A 11 17.179 -1.698 -1.270 27.27 0.00 O

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ATOM	45	N	GLU	A	12	18.299	-0.655	-2.945	25.13	0.00	N
ATOM	46	CA	GLU	A	12	18.475	0.605	-2.181	25.13	0.00	C
ATOM	47	C	GLU	A	12	17.179	1.213	-1.616	25.13	0.00	C
ATOM	48	O	GLU	A	12	17.048	1.390	-0.426	25.13	0.00	O
ATOM	49	N	GLU	A	13	16.225	1.536	-2.461	28.47	0.00	N
ATOM	50	CA	GLU	A	13	14.901	1.950	-1.974	28.47	0.00	C
ATOM	51	C	GLU	A	13	14.358	1.037	-0.868	28.47	0.00	C
ATOM	52	O	GLU	A	13	13.966	1.505	0.190	28.47	0.00	O
ATOM	53	N	HIS	A	14	14.335	-0.267	-1.101	20.56	0.00	N
ATOM	54	CA	HIS	A	14	13.794	-1.199	-0.106	20.56	0.00	C
ATOM	55	C	HIS	A	14	14.560	-1.126	1.236	20.56	0.00	C
ATOM	56	O	HIS	A	14	13.970	-1.122	2.322	20.56	0.00	O
ATOM	57	N	LEU	A	15	15.884	-1.079	1.145	7.47	0.00	N
ATOM	58	CA	LEU	A	15	16.750	-1.011	2.322	7.47	0.00	C
ATOM	59	C	LEU	A	15	16.724	0.377	2.988	7.47	0.00	C
ATOM	60	O	LEU	A	15	17.114	0.492	4.140	7.47	0.00	O
ATOM	61	N	SER	A	16	16.283	1.421	2.277	18.29	0.00	N
ATOM	62	CA	SER	A	16	16.215	2.761	2.870	18.29	0.00	C
ATOM	63	C	SER	A	16	15.126	2.866	3.937	18.29	0.00	C
ATOM	64	O	SER	A	16	15.184	3.766	4.746	18.29	0.00	O
ATOM	65	N	HIS	A	17	14.126	1.987	3.905	18.83	0.00	N
ATOM	66	CA	HIS	A	17	12.931	2.175	4.710	18.83	0.00	C
ATOM	67	C	HIS	A	17	12.911	1.290	5.925	18.83	0.00	C
ATOM	68	O	HIS	A	17	12.211	0.285	5.939	18.83	0.00	O
ATOM	69	N	VAL	A	18	13.667	1.662	6.952	21.61	0.00	N
ATOM	70	CA	VAL	A	18	13.649	0.930	8.226	21.61	0.00	C
ATOM	71	C	VAL	A	18	12.455	1.416	9.073	21.61	0.00	C
ATOM	72	O	VAL	A	18	12.231	2.619	9.198	21.61	0.00	O
ATOM	73	N	LYS	A	19	11.711	0.480	9.654	41.33	0.00	N
ATOM	74	CA	LYS	A	19	10.394	0.738	10.251	41.33	0.00	C
ATOM	75	C	LYS	A	19	10.466	0.797	11.779	41.33	0.00	C
ATOM	76	O	LYS	A	19	11.024	-0.102	12.394	41.33	0.00	O
ATOM	77	N	GLU	A	20	9.892	1.832	12.391	49.34	0.00	N
ATOM	78	CA	GLU	A	20	10.003	2.007	13.848	49.34	0.00	C
ATOM	79	C	GLU	A	20	8.986	1.178	14.597	49.34	0.00	C
ATOM	80	O	GLU	A	20	7.952	0.808	14.049	49.34	0.00	O
ATOM	81	N	GLU	A	21	9.300	0.899	15.861	48.16	0.00	N
ATOM	82	CA	GLU	A	21	8.634	-0.168	16.607	48.16	0.00	C
ATOM	83	C	GLU	A	21	7.153	0.124	16.844	48.16	0.00	C
ATOM	84	O	GLU	A	21	6.369	-0.811	17.040	48.16	0.00	O
ATOM	85	N	ASN	A	22	6.774	1.399	16.808	60.36	0.00	N
ATOM	86	CA	ASN	A	22	5.371	1.790	16.970	60.36	0.00	C
ATOM	87	C	ASN	A	22	4.716	2.391	15.715	60.36	0.00	C
ATOM	88	O	ASN	A	22	3.648	3.000	15.824	60.36	0.00	O
ATOM	89	N	THR	A	23	5.339	2.269	14.540	74.63	0.00	N
ATOM	90	CA	THR	A	23	4.636	2.674	13.297	74.63	0.00	C
ATOM	91	C	THR	A	23	3.937	1.492	12.597	74.63	0.00	C
ATOM	92	O	THR	A	23	4.343	0.315	12.707	74.63	0.00	O
ATOM	93	N	ILE	A	24	2.863	1.841	11.907	61.70	0.00	N
ATOM	94	CA	ILE	A	24	2.133	0.908	11.089	61.70	0.00	C
ATOM	95	C	ILE	A	24	1.893	1.588	9.781	61.70	0.00	C
ATOM	96	O	ILE	A	24	1.270	2.646	9.760	61.70	0.00	O
ATOM	97	N	TYR	A	25	2.393	1.015	8.691	57.19	0.00	N
ATOM	98	CA	TYR	A	25	2.072	1.558	7.393	57.19	0.00	C
ATOM	99	C	TYR	A	25	0.609	1.246	7.051	57.19	0.00	C
ATOM	100	O	TYR	A	25	0.029	0.273	7.510	57.19	0.00	O
ATOM	101	N	VAL	A	26	0.019	2.088	6.230	64.40	0.00	N
ATOM	102	CA	VAL	A	26	-1.326	1.856	5.716	64.40	0.00	C
ATOM	103	C	VAL	A	26	-1.394	0.504	4.989	64.40	0.00	C
ATOM	104	O	VAL	A	26	-2.320	-0.244	5.138	64.40	0.00	O
ATOM	105	N	THR	A	27	-0.413	0.264	4.153	61.12	0.00	N
ATOM	106	CA	THR	A	27	-0.225	-0.940	3.432	61.12	0.00	C
ATOM	107	C	THR	A	27	-0.214	-2.155	4.325	61.12	0.00	C
ATOM	108	O	THR	A	27	-0.816	-3.189	4.005	61.12	0.00	O
ATOM	109	N	ASP	A	28	0.421	-2.066	5.476	60.47	0.00	N
ATOM	110	CA	ASP	A	28	0.217	-3.125	6.447	60.47	0.00	C
ATOM	111	C	ASP	A	28	-1.221	-3.366	6.899	60.47	0.00	C
ATOM	112	O	ASP	A	28	-1.560	-4.494	7.172	60.47	0.00	O
ATOM	113	N	LEU	A	29	-2.082	-2.355	6.958	76.20	0.00	N
ATOM	114	CA	LEU	A	29	-3.418	-2.565	7.521	76.20	0.00	C
ATOM	115	C	LEU	A	29	-4.304	-3.447	6.637	76.20	0.00	C
ATOM	116	O	LEU	A	29	-5.335	-3.962	7.065	76.20	0.00	O
ATOM	117	N	VAL	A	30	-3.930	-3.597	5.378	58.21	0.00	N
ATOM	118	CA	VAL	A	30	-4.776	-4.325	4.449	58.21	0.00	C
ATOM	119	C	VAL	A	30	-4.099	-5.619	4.014	58.21	0.00	C
ATOM	120	O	VAL	A	30	-4.413	-6.174	2.971	58.21	0.00	O
ATOM	121	N	ARG	A	31	-3.154	-6.069	4.828	99.99	0.00	N
ATOM	122	CA	ARG	A	31	-2.426	-7.287	4.613	99.99	0.00	C
ATOM	123	C	ARG	A	31	-2.433	-8.174	5.834	99.99	0.00	C
ATOM	124	O	ARG	A	31	-2.927	-7.806	6.907	99.99	0.00	O
ATOM	125	N	CYS	A	32	-1.955	-9.395	5.616	78.31	0.00	N
ATOM	126	CA	CYS	A	32	-1.910	-10.426	6.637	78.31	0.00	C
ATOM	127	C	CYS	A	32	-1.015	-9.951	7.770	78.31	0.00	C
ATOM	128	O	CYS	A	32	0.134	-9.567	7.534	78.31	0.00	O
ATOM	129	N	PRO	A	33	-1.508	-10.024	8.999	51.38	0.00	N
ATOM	130	CA	PRO	A	33	-0.664	-9.610	10.083	51.38	0.00	C
ATOM	131	C	PRO	A	33	0.611	-10.429	10.223	51.38	0.00	C
ATOM	132	O	PRO	A	33	1.694	-9.852	10.411	51.38	0.00	O
ATOM	133	N	ARG	A	34	0.512	-11.757	10.119	62.75	0.00	N
ATOM	134	CA	ARG	A	34	1.689	-12.574	10.256	62.75	0.00	C
ATOM	135	C	ARG	A	34	2.720	-12.198	9.218	62.75	0.00	C
ATOM	136	O	ARG	A	34	3.911	-12.267	9.453	62.75	0.00	O

ATOM	137	N	ARG	A	35	2.276	-11.837	8.033	35.09	0.00	N
ATOM	138	CA	ARG	A	35	3.238	-11.530	6.965	35.09	0.00	C
ATOM	139	C	ARG	A	35	3.971	-10.221	7.251	35.09	0.00	C
ATOM	140	O	ARG	A	35	5.151	-10.042	6.901	35.09	0.00	O
ATOM	141	N	VAL	A	36	3.228	-9.297	7.848	55.22	0.00	N
ATOM	142	CA	VAL	A	36	3.791	-7.981	8.175	55.22	0.00	C
ATOM	143	C	VAL	A	36	4.864	-8.200	9.230	55.22	0.00	C
ATOM	144	O	VAL	A	36	5.972	-7.734	9.085	55.22	0.00	O
ATOM	145	N	ARG	A	37	4.561	-8.972	10.259	66.63	0.00	N
ATOM	146	CA	ARG	A	37	5.600	-9.259	11.227	66.63	0.00	C
ATOM	147	C	ARG	A	37	6.749	-10.045	10.630	66.63	0.00	C
ATOM	148	O	ARG	A	37	7.879	-9.890	11.061	66.63	0.00	O
ATOM	149	N	TYR	A	38	6.481	-10.904	9.649	51.44	0.00	N
ATOM	150	CA	TYR	A	38	7.570	-11.660	9.036	51.44	0.00	C
ATOM	151	C	TYR	A	38	8.499	-10.724	8.363	51.44	0.00	C
ATOM	152	O	TYR	A	38	9.689	-10.942	8.377	51.44	0.00	O
ATOM	153	N	GLU	A	39	7.963	-9.678	7.760	76.94	0.00	N
ATOM	154	CA	GLU	A	39	8.816	-8.667	7.126	76.94	0.00	C
ATOM	155	C	GLU	A	39	9.769	-7.904	8.077	76.94	0.00	C
ATOM	156	O	GLU	A	39	10.773	-7.394	7.597	76.94	0.00	O
ATOM	157	N	SER	A	40	9.464	-7.844	9.380	51.76	0.00	N
ATOM	158	CA	SER	A	40	10.398	-7.338	10.412	51.76	0.00	C
ATOM	159	C	SER	A	40	11.345	-8.393	10.958	51.76	0.00	C
ATOM	160	O	SER	A	40	12.540	-8.130	11.114	51.76	0.00	O
ATOM	161	N	GLU	A	41	10.808	-9.578	11.263	49.17	0.00	N
ATOM	162	CA	GLU	A	41	11.604	-10.637	11.865	49.17	0.00	C
ATOM	163	C	GLU	A	41	12.456	-11.415	10.889	49.17	0.00	C
ATOM	164	O	GLU	A	41	13.321	-12.135	11.370	49.17	0.00	O
ATOM	165	N	TYR	A	42	12.238	-11.336	9.566	54.89	0.00	N
ATOM	166	CA	TYR	A	42	13.052	-12.135	8.586	54.89	0.00	C
ATOM	167	C	TYR	A	42	13.369	-11.290	7.378	54.89	0.00	C
ATOM	168	O	TYR	A	42	13.024	-11.599	6.196	54.89	0.00	O
ATOM	169	N	LYS	A	43	14.059	-10.210	7.691	62.62	0.00	N
ATOM	170	CA	LYS	A	43	14.286	-9.169	6.756	62.62	0.00	C
ATOM	171	C	LYS	A	43	15.175	-9.664	5.651	62.62	0.00	C
ATOM	172	O	LYS	A	43	15.118	-9.127	4.534	62.62	0.00	O
ATOM	173	N	GLU	A	44	16.024	-10.635	5.936	58.52	0.00	N
ATOM	174	CA	GLU	A	44	16.906	-11.087	4.887	58.52	0.00	C
ATOM	175	C	GLU	A	44	16.077	-11.799	3.791	58.52	0.00	C
ATOM	176	O	GLU	A	44	16.309	-11.615	2.572	58.52	0.00	O
ATOM	177	N	LEU	A	45	15.070	-12.551	4.234	58.40	0.00	N
ATOM	178	CA	LEU	A	45	14.177	-13.244	3.311	58.40	0.00	C
ATOM	179	C	LEU	A	45	13.268	-12.185	2.642	58.40	0.00	C
ATOM	180	O	LEU	A	45	13.095	-12.177	1.406	58.40	0.00	O
ATOM	181	N	ALA	A	46	12.710	-11.278	3.448	72.70	0.00	N
ATOM	182	CA	ALA	A	46	11.893	-10.178	2.897	72.70	0.00	C
ATOM	183	C	ALA	A	46	12.519	-9.534	1.649	72.70	0.00	C
ATOM	184	O	ALA	A	46	11.825	-9.262	0.709	72.70	0.00	O
ATOM	185	N	ILE	A	47	13.830	-9.341	1.634	57.95	0.00	N
ATOM	186	CA	ILE	A	47	14.526	-8.691	0.538	57.95	0.00	C
ATOM	187	C	ILE	A	47	14.299	-9.332	-0.838	57.95	0.00	C
ATOM	188	O	ILE	A	47	14.451	-8.669	-1.895	57.95	0.00	O
ATOM	189	N	SER	A	48	13.959	-10.620	-0.874	66.06	0.00	N
ATOM	190	CA	SER	A	48	13.715	-11.277	-2.169	66.06	0.00	C
ATOM	191	C	SER	A	48	12.509	-10.666	-2.882	66.06	0.00	C
ATOM	192	O	SER	A	48	12.401	-10.723	-4.108	66.06	0.00	O
ATOM	193	N	GLN	A	49	11.610	-10.068	-2.123	66.28	0.00	N
ATOM	194	CA	GLN	A	49	10.459	-9.434	-2.743	66.28	0.00	C
ATOM	195	C	GLN	A	49	10.847	-8.226	-3.623	66.28	0.00	C
ATOM	196	O	GLN	A	49	10.116	-7.889	-4.482	66.28	0.00	O
ATOM	197	N	VAL	A	50	12.031	-7.643	-3.424	60.14	0.00	N
ATOM	198	CA	VAL	A	50	12.659	-6.700	-4.358	60.14	0.00	C
ATOM	199	C	VAL	A	50	12.750	-7.176	-5.802	60.14	0.00	C
ATOM	200	O	VAL	A	50	12.805	-6.373	-6.754	60.14	0.00	O
ATOM	201	N	TYR	A	51	12.865	-8.468	-5.991	32.22	0.00	N
ATOM	202	CA	TYR	A	51	13.231	-8.953	-7.306	32.22	0.00	C
ATOM	203	C	TYR	A	51	12.000	-9.515	-8.013	32.22	0.00	C
ATOM	204	O	TYR	A	51	12.116	-10.179	-9.031	32.22	0.00	O
ATOM	205	N	ALA	A	52	10.823	-9.258	-7.445	41.28	0.00	N
ATOM	206	CA	ALA	A	52	9.580	-9.586	-8.075	41.28	0.00	C
ATOM	207	C	ALA	A	52	9.375	-8.694	-9.336	41.28	0.00	C
ATOM	208	O	ALA	A	52	9.152	-7.478	-9.216	41.28	0.00	O
ATOM	209	N	PRO	A	53	9.401	-9.282	-10.541	48.93	0.00	N
ATOM	210	CA	PRO	A	53	9.338	-8.519	-11.804	48.93	0.00	C
ATOM	211	C	PRO	A	53	8.051	-7.715	-11.969	48.93	0.00	C
ATOM	212	O	PRO	A	53	8.107	-6.662	-12.589	48.93	0.00	O
ATOM	213	N	SER	A	54	6.912	-8.185	-11.428	36.30	0.00	N
ATOM	214	CA	SER	A	54	5.662	-7.382	-11.372	36.30	0.00	C
ATOM	215	C	SER	A	54	5.807	-6.143	-10.551	36.30	0.00	C
ATOM	216	O	SER	A	54	5.159	-5.116	-10.806	36.30	0.00	O
ATOM	217	N	ALA	A	55	6.666	-6.210	-9.534	32.49	0.00	N
ATOM	218	CA	ALA	A	55	6.871	-5.023	-8.707	32.49	0.00	C
ATOM	219	C	ALA	A	55	7.756	-4.055	-9.490	32.49	0.00	C
ATOM	220	O	ALA	A	55	7.598	-2.860	-9.403	32.49	0.00	O
ATOM	221	N	ILE	A	56	8.662	-4.543	-10.314	36.07	0.00	N
ATOM	222	CA	ILE	A	56	9.562	-3.610	-11.005	36.07	0.00	C
ATOM	223	C	ILE	A	56	8.724	-2.964	-12.115	36.07	0.00	C
ATOM	224	O	ILE	A	56	8.790	-1.755	-12.348	36.07	0.00	O
ATOM	225	N	LEU	A	57	7.912	-3.805	-12.760	30.30	0.00	N
ATOM	226	CA	LEU	A	57	6.935	-3.366	-13.747	30.30	0.00	C
ATOM	227	C	LEU	A	57	6.033	-2.336	-13.087	30.30	0.00	C
ATOM	228	O	LEU	A	57	5.874	-1.207	-13.590	30.30	0.00	O

ATOM	229	N	GLY	A	58	5.483	-2.701	-11.946	40.09	0.00	N
ATOM	230	CA	GLY	A	58	4.634	-1.806	-11.182	40.09	0.00	C
ATOM	231	C	GLY	A	58	5.258	-0.473	-10.875	40.09	0.00	C
ATOM	232	O	GLY	A	58	4.607	0.560	-11.036	40.09	0.00	O
ATOM	233	N	ASP	A	59	6.514	-0.439	-10.443	43.66	0.00	N
ATOM	234	CA	ASP	A	59	7.150	0.844	-10.105	43.66	0.00	C
ATOM	235	C	ASP	A	59	7.486	1.775	-11.275	43.66	0.00	C
ATOM	236	O	ASP	A	59	7.461	2.943	-11.121	43.66	0.00	O
ATOM	237	N	ILE	A	60	7.874	1.212	-12.405	47.37	0.00	N
ATOM	238	CA	ILE	A	60	8.072	1.923	-13.651	47.37	0.00	C
ATOM	239	C	ILE	A	60	6.774	2.586	-14.133	47.37	0.00	C
ATOM	240	O	ILE	A	60	6.798	3.761	-14.559	47.37	0.00	O
ATOM	241	N	LEU	A	61	5.641	1.870	-14.058	37.07	0.00	N
ATOM	242	CA	LEU	A	61	4.334	2.454	-14.392	37.07	0.00	C
ATOM	243	C	LEU	A	61	4.024	3.653	-13.537	37.07	0.00	C
ATOM	244	O	LEU	A	61	3.668	4.678	-14.050	37.07	0.00	O
ATOM	245	N	HIS	A	62	4.172	3.508	-12.232	40.48	0.00	N
ATOM	246	CA	HIS	A	62	3.968	4.616	-11.306	40.48	0.00	C
ATOM	247	C	HIS	A	62	4.884	5.714	-11.684	40.48	0.00	C
ATOM	248	O	HIS	A	62	4.443	6.854	-11.841	40.48	0.00	O
ATOM	249	N	LEU	A	63	6.158	5.423	-11.888	37.63	0.00	N
ATOM	250	CA	LEU	A	63	7.034	6.526	-12.325	37.63	0.00	C
ATOM	251	C	LEU	A	63	6.405	7.217	-13.537	37.63	0.00	C
ATOM	252	O	LEU	A	63	6.167	8.394	-13.497	37.63	0.00	O
ATOM	253	N	GLY	A	64	6.109	6.499	-14.603	32.57	0.00	N
ATOM	254	CA	GLY	A	64	5.719	7.158	-15.811	32.57	0.00	C
ATOM	255	C	GLY	A	64	4.400	7.890	-15.740	32.57	0.00	C
ATOM	256	O	GLY	A	64	4.174	8.755	-16.509	32.57	0.00	O
ATOM	257	N	LEU	A	65	3.499	7.454	-14.886	17.30	0.00	N
ATOM	258	CA	LEU	A	65	2.129	7.928	-14.922	17.30	0.00	C
ATOM	259	C	LEU	A	65	2.136	9.075	-13.968	17.30	0.00	C
ATOM	260	O	LEU	A	65	1.699	10.153	-14.266	17.30	0.00	O
ATOM	261	N	GLU	A	66	2.672	8.845	-12.789	52.15	0.00	N
ATOM	262	CA	GLU	A	66	3.061	9.970	-11.943	52.15	0.00	C
ATOM	263	C	GLU	A	66	3.702	11.154	-12.688	52.15	0.00	C
ATOM	264	O	GLU	A	66	3.297	12.272	-12.436	52.15	0.00	O
ATOM	265	N	SER	A	67	4.665	10.981	-13.581	48.13	0.00	N
ATOM	266	CA	SER	A	67	5.183	12.221	-14.250	48.13	0.00	C
ATOM	267	C	SER	A	67	4.100	13.012	-15.067	48.13	0.00	C
ATOM	268	O	SER	A	67	4.182	14.248	-15.203	48.13	0.00	O
ATOM	269	N	VAL	A	68	3.091	12.293	-15.600	43.23	0.00	N
ATOM	270	CA	VAL	A	68	1.939	12.934	-16.238	43.23	0.00	C
ATOM	271	C	VAL	A	68	1.158	13.773	-15.231	43.23	0.00	C
ATOM	272	O	VAL	A	68	0.645	14.865	-15.520	43.23	0.00	O
ATOM	273	N	LEU	A	69	1.040	13.216	-14.047	36.64	0.00	N
ATOM	274	CA	LEU	A	69	0.261	13.818	-13.004	36.64	0.00	C
ATOM	275	C	LEU	A	69	0.848	15.118	-12.430	36.64	0.00	C
ATOM	276	O	LEU	A	69	0.134	15.992	-11.952	36.64	0.00	O
ATOM	277	N	LYS	A	70	2.165	15.215	-12.445	44.43	0.00	N
ATOM	278	CA	LYS	A	70	2.860	16.356	-11.911	44.43	0.00	C
ATOM	279	C	LYS	A	70	2.708	17.450	-12.934	44.43	0.00	C
ATOM	280	O	LYS	A	70	2.497	18.596	-12.562	44.43	0.00	O
ATOM	281	N	GLY	A	71	2.769	17.105	-14.229	47.19	0.00	N
ATOM	282	CA	GLY	A	71	2.550	18.111	-15.305	47.19	0.00	C
ATOM	283	C	GLY	A	71	1.130	18.685	-15.376	47.19	0.00	C
ATOM	284	O	GLY	A	71	0.821	19.815	-14.923	47.19	0.00	O
ATOM	285	N	ASN	A	72	0.217	17.876	-15.876	43.26	0.00	N
ATOM	286	CA	ASN	A	72	-1.095	18.370	-16.206	43.26	0.00	C
ATOM	287	C	ASN	A	72	-2.040	18.612	-15.074	43.26	0.00	C
ATOM	288	O	ASN	A	72	-2.921	19.420	-15.211	43.26	0.00	O
ATOM	289	N	PHE	A	73	-1.880	17.933	-13.966	39.90	0.00	N
ATOM	290	CA	PHE	A	73	-2.766	18.118	-12.847	39.90	0.00	C
ATOM	291	C	PHE	A	73	-2.091	18.771	-11.639	39.90	0.00	C
ATOM	292	O	PHE	A	73	-2.674	18.861	-10.593	39.90	0.00	O
ATOM	293	N	ASN	A	74	-0.838	19.166	-11.735	60.33	0.00	N
ATOM	294	CA	ASN	A	74	-0.201	19.781	-10.582	60.33	0.00	C
ATOM	295	C	ASN	A	74	-0.355	18.949	-9.279	60.33	0.00	C
ATOM	296	O	ASN	A	74	-0.590	19.474	-8.165	60.33	0.00	O
ATOM	297	N	ALA	A	75	-0.160	17.641	-9.414	52.99	0.00	N
ATOM	298	CA	ALA	A	75	-0.115	16.792	-8.245	52.99	0.00	C
ATOM	299	C	ALA	A	75	1.282	16.777	-7.622	52.99	0.00	C
ATOM	300	O	ALA	A	75	2.270	16.992	-8.289	52.99	0.00	O
ATOM	301	N	GLU	A	76	1.336	16.530	-6.332	61.81	0.00	N
ATOM	302	CA	GLU	A	76	2.559	16.069	-5.695	61.81	0.00	C
ATOM	303	C	GLU	A	76	2.544	14.546	-5.834	61.81	0.00	C
ATOM	304	O	GLU	A	76	1.466	13.957	-5.865	61.81	0.00	O
ATOM	305	N	THR	A	77	3.710	13.915	-5.909	66.18	0.00	N
ATOM	306	CA	THR	A	77	3.794	12.484	-6.087	66.18	0.00	C
ATOM	307	C	THR	A	77	4.639	11.898	-4.978	66.18	0.00	C
ATOM	308	O	THR	A	77	5.510	12.566	-4.500	66.18	0.00	O
ATOM	309	N	GLU	A	78	4.321	10.666	-4.562	71.90	0.00	N
ATOM	310	CA	GLU	A	78	4.988	9.920	-3.517	71.90	0.00	C
ATOM	311	C	GLU	A	78	5.020	10.703	-2.232	71.90	0.00	C
ATOM	312	O	GLU	A	78	6.063	10.936	-1.623	71.90	0.00	O
ATOM	313	N	VAL	A	79	3.826	11.074	-1.816	45.89	0.00	N
ATOM	314	CA	VAL	A	79	3.635	12.010	-0.767	45.89	0.00	C
ATOM	315	C	VAL	A	79	3.474	11.303	0.544	45.89	0.00	C
ATOM	316	O	VAL	A	79	2.510	10.573	0.774	45.89	0.00	O
ATOM	317	N	GLU	A	80	4.416	11.580	1.421	26.43	0.00	N
ATOM	318	CA	GLU	A	80	4.530	10.857	2.668	26.43	0.00	C
ATOM	319	C	GLU	A	80	3.901	11.655	3.780	26.43	0.00	C
ATOM	320	O	GLU	A	80	4.090	12.840	3.853	26.43	0.00	O

ATOM	321	N	THR	A	81	3.177	11.027	4.670	34.54	0.00	N
ATOM	322	CA	THR	A	81	2.510	11.744	5.761	34.54	0.00	C
ATOM	323	C	THR	A	81	2.133	10.811	6.884	34.54	0.00	C
ATOM	324	O	THR	A	81	2.164	9.597	6.754	34.54	0.00	O
ATOM	325	N	LEU	A	82	1.667	11.373	7.976	26.00	0.00	N
ATOM	326	CA	LEU	A	82	1.644	10.601	9.202	26.00	0.00	C
ATOM	327	C	LEU	A	82	0.492	11.060	10.035	26.00	0.00	C
ATOM	328	O	LEU	A	82	0.098	12.203	9.950	26.00	0.00	O
ATOM	329	N	ARG	A	83	-0.124	10.141	10.761	0.00	0.00	N
ATOM	330	CA	ARG	A	83	-1.326	10.449	11.518	0.00	0.00	C
ATOM	331	C	ARG	A	83	-1.368	9.467	12.659	0.00	0.00	C
ATOM	332	O	ARG	A	83	-0.926	8.327	12.512	0.00	0.00	O
ATOM	333	N	GLU	A	84	-1.873	9.890	13.809	16.62	0.00	N
ATOM	334	CA	GLU	A	84	-1.727	9.022	14.978	16.62	0.00	C
ATOM	335	C	GLU	A	84	-3.042	8.425	15.425	16.62	0.00	C
ATOM	336	O	GLU	A	84	-4.110	8.996	15.183	16.62	0.00	O
ATOM	337	N	ILE	A	85	-2.918	7.275	16.095	49.03	0.00	N
ATOM	338	CA	ILE	A	85	-4.029	6.451	16.449	49.03	0.00	C
ATOM	339	C	ILE	A	85	-3.781	5.841	17.813	49.03	0.00	C
ATOM	340	O	ILE	A	85	-2.643	5.507	18.123	49.03	0.00	O
ATOM	341	N	ASN	A	86	-4.840	5.701	18.619	23.99	0.00	N
ATOM	342	CA	ASN	A	86	-4.761	5.021	19.937	23.99	0.00	C
ATOM	343	C	ASN	A	86	-5.250	3.566	19.895	23.99	0.00	C
ATOM	344	O	ASN	A	86	-6.399	3.293	19.511	23.99	0.00	O
ATOM	345	N	VAL	A	87	-4.383	2.645	20.322	34.12	0.00	N
ATOM	346	CA	VAL	A	87	-4.703	1.227	20.308	34.12	0.00	C
ATOM	347	C	VAL	A	87	-4.355	0.547	21.630	34.12	0.00	C
ATOM	348	O	VAL	A	87	-3.230	0.067	21.819	34.12	0.00	O
ATOM	349	N	GLY	A	88	-5.321	0.484	22.542	45.20	0.00	N
ATOM	350	CA	GLY	A	88	-5.066	-0.115	23.865	45.20	0.00	C
ATOM	351	C	GLY	A	88	-4.192	0.803	24.708	45.20	0.00	C
ATOM	352	O	GLY	A	88	-3.216	0.373	25.351	45.20	0.00	O
ATOM	353	N	GLY	A	89	-4.538	2.089	24.663	44.67	0.00	N
ATOM	354	CA	GLY	A	89	-3.780	3.124	25.348	44.67	0.00	C
ATOM	355	C	GLY	A	89	-2.339	3.328	24.890	44.67	0.00	C
ATOM	356	O	GLY	A	89	-1.668	4.231	25.406	44.67	0.00	O
ATOM	357	N	LYS	A	90	-1.846	2.502	23.956	48.32	0.00	N
ATOM	358	CA	LYS	A	90	-0.547	2.733	23.318	48.32	0.00	C
ATOM	359	C	LYS	A	90	-0.830	3.651	22.138	48.32	0.00	C
ATOM	360	O	LYS	A	90	-1.881	3.541	21.497	48.32	0.00	O
ATOM	361	N	VAL	A	91	0.069	4.592	21.872	38.80	0.00	N
ATOM	362	CA	VAL	A	91	-0.106	5.503	20.744	38.80	0.00	C
ATOM	363	C	VAL	A	91	0.675	4.963	19.561	38.80	0.00	C
ATOM	364	O	VAL	A	91	1.817	4.523	19.727	38.80	0.00	O
ATOM	365	N	TYR	A	92	0.052	5.005	18.377	52.81	0.00	N
ATOM	366	CA	TYR	A	92	0.676	4.480	17.190	52.81	0.00	C
ATOM	367	C	TYR	A	92	0.645	5.490	16.087	52.81	0.00	C
ATOM	368	O	TYR	A	92	-0.329	6.191	15.893	52.81	0.00	O
ATOM	369	N	LYS	A	93	1.747	5.547	15.371	52.93	0.00	N
ATOM	370	CA	LYS	A	93	1.859	6.412	14.217	52.93	0.00	C
ATOM	371	C	LYS	A	93	1.524	5.603	12.955	52.93	0.00	C
ATOM	372	O	LYS	A	93	2.270	4.714	12.581	52.93	0.00	O
ATOM	373	N	ILE	A	94	0.406	5.927	12.320	51.17	0.00	N
ATOM	374	CA	ILE	A	94	0.084	5.372	11.038	51.17	0.00	C
ATOM	375	C	ILE	A	94	0.743	6.184	9.929	51.17	0.00	C
ATOM	376	O	ILE	A	94	0.556	7.385	9.807	51.17	0.00	O
ATOM	377	N	LYS	A	95	1.497	5.507	9.097	49.55	0.00	N
ATOM	378	CA	LYS	A	95	2.305	6.166	8.106	49.55	0.00	C
ATOM	379	C	LYS	A	95	1.950	5.702	6.699	49.55	0.00	C
ATOM	380	O	LYS	A	95	1.760	4.545	6.470	49.55	0.00	O
ATOM	381	N	GLY	A	96	1.853	6.613	5.743	51.60	0.00	N
ATOM	382	CA	GLY	A	96	1.572	6.242	4.383	51.60	0.00	C
ATOM	383	C	GLY	A	96	2.142	7.179	3.378	51.60	0.00	C
ATOM	384	O	GLY	A	96	2.537	8.280	3.703	51.60	0.00	O
ATOM	385	N	ARG	A	97	2.107	6.740	2.138	35.35	0.00	N
ATOM	386	CA	ARG	A	97	2.693	7.428	1.007	35.35	0.00	C
ATOM	387	C	ARG	A	97	1.769	7.206	-0.178	35.35	0.00	C
ATOM	388	O	ARG	A	97	1.672	6.084	-0.699	35.35	0.00	O
ATOM	389	N	ALA	A	98	1.104	8.281	-0.588	48.81	0.00	N
ATOM	390	CA	ALA	A	98	0.117	8.243	-1.592	48.81	0.00	C
ATOM	391	C	ALA	A	98	0.862	8.383	-2.906	48.81	0.00	C
ATOM	392	O	ALA	A	98	1.855	9.097	-3.010	48.81	0.00	O
ATOM	393	N	ASP	A	99	0.424	7.673	-3.912	46.60	0.00	N
ATOM	394	CA	ASP	A	99	1.076	7.754	-5.196	46.60	0.00	C
ATOM	395	C	ASP	A	99	0.974	9.188	-5.720	46.60	0.00	C
ATOM	396	O	ASP	A	99	1.922	9.707	-6.350	46.60	0.00	O
ATOM	397	N	ALA	A	100	-0.166	9.846	-5.513	51.50	0.00	N
ATOM	398	CA	ALA	A	100	-0.251	11.269	-5.953	51.50	0.00	C
ATOM	399	C	ALA	A	100	-1.290	11.992	-5.184	51.50	0.00	C
ATOM	400	O	ALA	A	100	-2.232	11.366	-4.731	51.50	0.00	O
ATOM	401	N	ILE	A	101	-1.104	13.303	-4.998	67.57	0.00	N
ATOM	402	CA	ILE	A	101	-2.137	14.137	-4.384	67.57	0.00	C
ATOM	403	C	ILE	A	101	-2.390	15.420	-5.140	67.57	0.00	C
ATOM	404	O	ILE	A	101	-1.467	16.143	-5.558	67.57	0.00	O
ATOM	405	N	ILE	A	102	-3.672	15.695	-5.329	54.39	0.00	N
ATOM	406	CA	ILE	A	102	-4.083	17.004	-5.796	54.39	0.00	C
ATOM	407	C	ILE	A	102	-4.628	17.765	-4.581	54.39	0.00	C
ATOM	408	O	ILE	A	102	-5.695	17.431	-4.073	54.39	0.00	O
ATOM	409	N	ARG	A	103	-3.845	18.751	-4.103	48.81	0.00	N
ATOM	410	CA	ARG	A	103	-4.150	19.504	-2.879	48.81	0.00	C
ATOM	411	C	ARG	A	103	-5.423	20.391	-2.949	48.81	0.00	C
ATOM	412	O	ARG	A	103	-6.199	20.482	-1.960	48.81	0.00	O

ATOM	413	N	ASN	A	104	-5.626	21.051	-4.095	49.62	0.00	N
ATOM	414	CA	ASN	A	104	-6.745	21.998	-4.259	49.62	0.00	C
ATOM	415	C	ASN	A	104	-7.230	21.994	-5.679	49.62	0.00	C
ATOM	416	O	ASN	A	104	-6.693	22.692	-6.538	49.62	0.00	O
ATOM	417	N	ASP	A	105	-8.253	21.174	-5.879	50.98	0.00	N
ATOM	418	CA	ASP	A	105	-9.039	21.134	-7.084	50.98	0.00	C
ATOM	419	C	ASP	A	105	-10.471	21.605	-6.714	50.98	0.00	C
ATOM	420	O	ASP	A	105	-11.262	20.843	-6.158	50.98	0.00	O
ATOM	421	N	ASN	A	106	-10.768	22.878	-6.986	41.30	0.00	N
ATOM	422	CA	ASN	A	106	-12.040	23.506	-6.575	41.30	0.00	C
ATOM	423	C	ASN	A	106	-12.422	23.321	-5.104	41.30	0.00	C
ATOM	424	O	ASN	A	106	-13.561	23.020	-4.774	41.30	0.00	O
ATOM	425	N	GLY	A	107	-11.470	23.524	-4.215	55.42	0.00	N
ATOM	426	CA	GLY	A	107	-11.717	23.337	-2.789	55.42	0.00	C
ATOM	427	C	GLY	A	107	-11.737	21.883	-2.335	55.42	0.00	C
ATOM	428	O	GLY	A	107	-12.404	21.544	-1.352	55.42	0.00	O
ATOM	429	N	LYS	A	108	-11.008	21.019	-3.043	47.85	0.00	N
ATOM	430	CA	LYS	A	108	-10.915	19.615	-2.668	47.85	0.00	C
ATOM	431	C	LYS	A	108	-9.483	19.049	-2.884	47.85	0.00	C
ATOM	432	O	LYS	A	108	-8.779	19.403	-3.839	47.85	0.00	O
ATOM	433	N	SER	A	109	-9.039	18.236	-1.933	50.40	0.00	N
ATOM	434	CA	SER	A	109	-7.862	17.387	-2.118	50.40	0.00	C
ATOM	435	C	SER	A	109	-8.308	16.067	-2.739	50.40	0.00	C
ATOM	436	O	SER	A	109	-9.315	15.517	-2.353	50.40	0.00	O
ATOM	437	N	ILE	A	110	-7.524	15.551	-3.650	39.96	0.00	N
ATOM	438	CA	ILE	A	110	-7.790	14.265	-4.209	39.96	0.00	C
ATOM	439	C	ILE	A	110	-6.588	13.343	-3.999	39.96	0.00	C
ATOM	440	O	ILE	A	110	-5.512	13.629	-4.510	39.96	0.00	O
ATOM	441	N	VAL	A	111	-6.752	12.243	-3.266	55.49	0.00	N
ATOM	442	CA	VAL	A	111	-5.679	11.220	-3.198	55.49	0.00	C
ATOM	443	C	VAL	A	111	-5.836	10.276	-4.388	55.49	0.00	C
ATOM	444	O	VAL	A	111	-6.932	9.764	-4.636	55.49	0.00	O
ATOM	445	N	ILE	A	112	-4.775	10.018	-5.128	50.38	0.00	N
ATOM	446	CA	ILE	A	112	-4.866	9.126	-6.282	50.38	0.00	C
ATOM	447	C	ILE	A	112	-4.010	7.894	-6.056	50.38	0.00	C
ATOM	448	O	ILE	A	112	-2.842	8.019	-5.770	50.38	0.00	O
ATOM	449	N	GLU	A	113	-4.547	6.709	-6.243	55.15	0.00	N
ATOM	450	CA	GLU	A	113	-3.780	5.455	-6.060	55.15	0.00	C
ATOM	451	C	GLU	A	113	-3.823	4.710	-7.388	55.15	0.00	C
ATOM	452	O	GLU	A	113	-4.882	4.569	-8.052	55.15	0.00	O
ATOM	453	N	ILE	A	114	-2.657	4.354	-7.861	49.82	0.00	N
ATOM	454	CA	ILE	A	114	-2.531	3.758	-9.150	49.82	0.00	C
ATOM	455	C	ILE	A	114	-2.210	2.295	-8.960	49.82	0.00	C
ATOM	456	O	ILE	A	114	-1.423	1.954	-8.099	49.82	0.00	O
ATOM	457	N	LYS	A	115	-2.787	1.433	-9.786	55.94	0.00	N
ATOM	458	CA	LYS	A	115	-2.621	0.003	-9.616	55.94	0.00	C
ATOM	459	C	LYS	A	115	-2.438	-0.643	-10.947	55.94	0.00	C
ATOM	460	O	LYS	A	115	-2.964	-0.176	-11.951	55.94	0.00	O
ATOM	461	N	THR	A	116	-1.684	-1.729	-10.958	47.50	0.00	N
ATOM	462	CA	THR	A	116	-1.468	-2.466	-12.194	47.50	0.00	C
ATOM	463	C	THR	A	116	-1.602	-3.921	-11.890	47.50	0.00	C
ATOM	464	O	THR	A	116	-1.369	-4.337	-10.804	47.50	0.00	O
ATOM	465	N	SER	A	117	-2.085	-4.706	-12.802	38.09	0.00	N
ATOM	466	CA	SER	A	117	-2.109	-6.154	-12.601	38.09	0.00	C
ATOM	467	C	SER	A	117	-2.180	-6.692	-13.946	38.09	0.00	C
ATOM	468	O	SER	A	117	-2.324	-5.911	-14.909	38.09	0.00	O
ATOM	469	N	ARG	A	118	-2.032	-8.006	-14.033	50.72	0.00	N
ATOM	470	CA	ARG	A	118	-2.068	-8.640	-15.363	50.72	0.00	C
ATOM	471	C	ARG	A	118	-3.471	-8.928	-15.862	50.72	0.00	C
ATOM	472	O	ARG	A	118	-3.648	-9.162	-17.069	50.72	0.00	O
ATOM	473	N	SER	A	119	-4.457	-8.893	-14.965	49.06	0.00	N
ATOM	474	CA	SER	A	119	-5.872	-9.062	-15.362	49.06	0.00	C
ATOM	475	C	SER	A	119	-6.800	-7.967	-14.770	49.06	0.00	C
ATOM	476	O	SER	A	119	-6.533	-7.439	-13.690	49.06	0.00	O
ATOM	477	N	ASP	A	120	-7.938	-7.766	-15.424	54.49	0.00	N
ATOM	478	CA	ASP	A	120	-8.922	-6.789	-15.023	54.49	0.00	C
ATOM	479	C	ASP	A	120	-10.062	-7.464	-14.339	54.49	0.00	C
ATOM	480	O	ASP	A	120	-11.180	-6.930	-14.286	54.49	0.00	O
ATOM	481	N	LYS	A	121	-9.805	-8.622	-13.800	48.74	0.00	N
ATOM	482	CA	LYS	A	121	-10.861	-9.343	-13.147	48.74	0.00	C
ATOM	483	C	LYS	A	121	-11.305	-8.719	-11.850	48.74	0.00	C
ATOM	484	O	LYS	A	121	-10.493	-8.415	-10.994	48.74	0.00	O
ATOM	485	N	GLY	A	122	-12.595	-8.552	-11.661	52.58	0.00	N
ATOM	486	CA	GLY	A	122	-13.099	-8.150	-10.341	52.58	0.00	C
ATOM	487	C	GLY	A	122	-12.816	-6.695	-9.897	52.58	0.00	C
ATOM	488	O	GLY	A	122	-13.062	-6.363	-8.702	52.58	0.00	O
ATOM	489	N	LEU	A	123	-12.369	-5.819	-10.826	73.63	0.00	N
ATOM	490	CA	LEU	A	123	-12.047	-4.418	-10.440	73.63	0.00	C
ATOM	491	C	LEU	A	123	-13.261	-3.672	-9.972	73.63	0.00	C
ATOM	492	O	LEU	A	123	-14.252	-3.694	-10.654	73.63	0.00	O
ATOM	493	N	PRO	A	124	-13.153	-2.951	-8.838	60.33	0.00	N
ATOM	494	CA	PRO	A	124	-11.936	-2.786	-8.048	60.33	0.00	C
ATOM	495	C	PRO	A	124	-11.854	-3.776	-6.934	60.33	0.00	C
ATOM	496	O	PRO	A	124	-12.861	-4.122	-6.314	60.33	0.00	O
ATOM	497	N	LEU	A	125	-10.645	-4.184	-6.634	46.18	0.00	N
ATOM	498	CA	LEU	A	125	-10.394	-5.171	-5.542	46.18	0.00	C
ATOM	499	C	LEU	A	125	-10.497	-4.530	-4.149	46.18	0.00	C
ATOM	500	O	LEU	A	125	-10.112	-3.350	-3.908	46.18	0.00	O
ATOM	501	N	ILE	A	126	-11.048	-5.276	-3.221	54.49	0.00	N
ATOM	502	CA	ILE	A	126	-11.528	-4.647	-1.996	54.49	0.00	C
ATOM	503	C	ILE	A	126	-10.339	-4.126	-1.167	54.49	0.00	C
ATOM	504	O	ILE	A	126	-10.462	-3.123	-0.513	54.49	0.00	O



ATOM	505	N	HIS	A	127	-9.195	-4.779	-1.251	57.34	0.00	N
ATOM	506	CA	HIS	A	127	-8.055	-4.383	-0.479	57.34	0.00	C
ATOM	507	C	HIS	A	127	-7.440	-3.163	-1.103	57.34	0.00	C
ATOM	508	O	HIS	A	127	-6.834	-2.382	-0.415	57.34	0.00	O
ATOM	509	N	HIS	A	128	-7.592	-2.980	-2.400	49.74	0.00	N
ATOM	510	CA	HIS	A	128	-7.176	-1.718	-3.018	49.74	0.00	C
ATOM	511	C	HIS	A	128	-8.083	-0.558	-2.609	49.74	0.00	C
ATOM	512	O	HIS	A	128	-7.606	0.554	-2.368	49.74	0.00	O
ATOM	513	N	LYS	A	129	-9.365	-0.803	-2.526	85.68	0.00	N
ATOM	514	CA	LYS	A	129	-10.266	0.264	-2.198	85.68	0.00	C
ATOM	515	C	LYS	A	129	-10.028	0.593	-0.745	85.68	0.00	C
ATOM	516	O	LYS	A	129	-9.930	1.747	-0.408	85.68	0.00	O
ATOM	517	N	MSE	A	130	-9.911	-0.410	0.128	84.86	0.00	N
ATOM	518	CA	MSE	A	130	-9.661	-0.122	1.564	84.86	0.00	C
ATOM	519	C	MSE	A	130	-8.432	0.772	1.739	84.86	0.00	C
ATOM	520	O	MSE	A	130	-8.445	1.649	2.550	84.86	0.00	O
ATOM	521	N	GLN	A	131	-7.394	0.520	0.958	72.35	0.00	N
ATOM	522	CA	GLN	A	131	-6.133	1.211	1.097	72.35	0.00	C
ATOM	523	C	GLN	A	131	-6.400	2.668	0.780	72.35	0.00	C
ATOM	524	O	GLN	A	131	-5.918	3.542	1.460	72.35	0.00	O
ATOM	525	N	LEU	A	132	-7.195	2.936	-0.242	55.73	0.00	N
ATOM	526	CA	LEU	A	132	-7.436	4.290	-0.682	55.73	0.00	C
ATOM	527	C	LEU	A	132	-8.295	4.984	0.347	55.73	0.00	C
ATOM	528	O	LEU	A	132	-8.142	6.173	0.629	55.73	0.00	O
ATOM	529	N	GLN	A	133	-9.173	4.244	0.963	90.16	0.00	N
ATOM	530	CA	GLN	A	133	-10.034	4.835	1.951	90.16	0.00	C
ATOM	531	C	GLN	A	133	-9.306	5.181	3.263	90.16	0.00	C
ATOM	532	O	GLN	A	133	-9.739	6.050	4.021	90.16	0.00	O
ATOM	533	N	ILE	A	134	-8.240	4.450	3.561	63.70	0.00	N
ATOM	534	CA	ILE	A	134	-7.448	4.750	4.709	63.70	0.00	C
ATOM	535	C	ILE	A	134	-6.635	6.008	4.375	63.70	0.00	C
ATOM	536	O	ILE	A	134	-6.604	6.904	5.182	63.70	0.00	O
ATOM	537	N	TYR	A	135	-5.993	6.089	3.200	52.62	0.00	N
ATOM	538	CA	TYR	A	135	-5.308	7.299	2.832	52.62	0.00	C
ATOM	539	C	TYR	A	135	-6.263	8.486	3.003	52.62	0.00	C
ATOM	540	O	TYR	A	135	-5.876	9.536	3.592	52.62	0.00	O
ATOM	541	N	LEU	A	136	-7.510	8.345	2.563	79.77	0.00	N
ATOM	542	CA	LEU	A	136	-8.431	9.472	2.663	79.77	0.00	C
ATOM	543	C	LEU	A	136	-8.471	9.988	4.123	79.77	0.00	C
ATOM	544	O	LEU	A	136	-8.423	11.193	4.364	79.77	0.00	O
ATOM	545	N	TRP	A	137	-8.562	9.085	5.079	62.11	0.00	N
ATOM	546	CA	TRP	A	137	-8.471	9.465	6.480	62.11	0.00	C
ATOM	547	C	TRP	A	137	-7.090	10.092	6.781	62.11	0.00	C
ATOM	548	O	TRP	A	137	-6.988	11.182	7.363	62.11	0.00	O
ATOM	549	N	LEU	A	138	-6.039	9.457	6.283	52.60	0.00	N
ATOM	550	CA	LEU	A	138	-4.665	9.881	6.616	52.60	0.00	C
ATOM	551	C	LEU	A	138	-4.353	11.332	6.246	52.60	0.00	C
ATOM	552	O	LEU	A	138	-3.806	12.080	7.039	52.60	0.00	O
ATOM	553	N	PHE	A	139	-4.725	11.691	5.030	56.87	0.00	N
ATOM	554	CA	PHE	A	139	-4.602	13.020	4.511	56.87	0.00	C
ATOM	555	C	PHE	A	139	-5.790	13.890	4.834	56.87	0.00	C
ATOM	556	O	PHE	A	139	-5.772	15.074	4.508	56.87	0.00	O
ATOM	557	N	SER	A	140	-6.827	13.321	5.474	58.25	0.00	N
ATOM	558	CA	SER	A	140	-8.140	13.999	5.608	58.25	0.00	C
ATOM	559	C	SER	A	140	-8.590	14.636	4.304	58.25	0.00	C
ATOM	560	O	SER	A	140	-8.961	15.800	4.273	58.25	0.00	O
ATOM	561	N	ALA	A	141	-8.519	13.878	3.227	50.28	0.00	N
ATOM	562	CA	ALA	A	141	-8.945	14.332	1.917	50.28	0.00	C
ATOM	563	C	ALA	A	141	-10.405	13.939	1.667	50.28	0.00	C
ATOM	564	O	ALA	A	141	-10.983	13.084	2.348	50.28	0.00	O
ATOM	565	N	GLU	A	142	-11.035	14.621	0.722	51.95	0.00	N
ATOM	566	CA	GLU	A	142	-12.471	14.427	0.489	51.95	0.00	C
ATOM	567	C	GLU	A	142	-12.738	13.477	-0.702	51.95	0.00	C
ATOM	568	O	GLU	A	142	-13.747	12.791	-0.707	51.95	0.00	O
ATOM	569	N	LYS	A	143	-11.805	13.444	-1.660	77.71	0.00	N
ATOM	570	CA	LYS	A	143	-11.916	12.652	-2.862	77.71	0.00	C
ATOM	571	C	LYS	A	143	-10.727	11.686	-3.055	77.71	0.00	C
ATOM	572	O	LYS	A	143	-9.539	11.991	-2.732	77.71	0.00	O
ATOM	573	N	GLY	A	144	-11.077	10.526	-3.602	59.28	0.00	N
ATOM	574	CA	GLY	A	144	-10.120	9.474	-3.925	59.28	0.00	C
ATOM	575	C	GLY	A	144	-10.352	8.924	-5.300	59.28	0.00	C
ATOM	576	O	GLY	A	144	-11.486	8.740	-5.697	59.28	0.00	O
ATOM	577	N	ILE	A	145	-9.286	8.679	-6.041	67.60	0.00	N
ATOM	578	CA	ILE	A	145	-9.380	8.016	-7.325	67.60	0.00	C
ATOM	579	C	ILE	A	145	-8.437	6.791	-7.270	67.60	0.00	C
ATOM	580	O	ILE	A	145	-7.274	6.920	-6.924	67.60	0.00	O
ATOM	581	N	LEU	A	146	-8.955	5.621	-7.649	54.97	0.00	N
ATOM	582	CA	LEU	A	146	-8.233	4.396	-7.797	54.97	0.00	C
ATOM	583	C	LEU	A	146	-8.251	4.098	-9.279	54.97	0.00	C
ATOM	584	O	LEU	A	146	-9.304	3.843	-9.816	54.97	0.00	O
ATOM	585	N	VAL	A	147	-7.117	4.065	-9.937	46.30	0.00	N
ATOM	586	CA	VAL	A	147	-7.059	3.872	-11.356	46.30	0.00	C
ATOM	587	C	VAL	A	147	-6.211	2.623	-11.646	46.30	0.00	C
ATOM	588	O	VAL	A	147	-5.067	2.470	-11.090	46.30	0.00	O
ATOM	589	N	TYR	A	148	-6.742	1.739	-12.509	50.57	0.00	N
ATOM	590	CA	TYR	A	148	-6.090	0.482	-12.844	50.57	0.00	C
ATOM	591	C	TYR	A	148	-5.595	0.575	-14.257	50.57	0.00	C
ATOM	592	O	TYR	A	148	-6.345	0.903	-15.117	50.57	0.00	O
ATOM	593	N	ILE	A	149	-4.338	0.293	-14.483	43.47	0.00	N
ATOM	594	CA	ILE	A	149	-3.766	0.206	-15.807	43.47	0.00	C
ATOM	595	C	ILE	A	149	-3.430	-1.275	-15.990	43.47	0.00	C
ATOM	596	O	ILE	A	149	-2.545	-1.776	-15.346	43.47	0.00	O

ATOM	597	N	THR	A	150	-4.180	-2.003	-16.800	49.22	0.00	N
ATOM	598	CA	THR	A	150	-3.964	-3.413	-16.968	49.22	0.00	C
ATOM	599	C	THR	A	150	-3.936	-3.690	-18.433	49.22	0.00	C
ATOM	600	O	THR	A	150	-4.311	-2.846	-19.222	49.22	0.00	O
ATOM	601	N	PRO	A	151	-3.486	-4.859	-18.836	41.72	0.00	N
ATOM	602	CA	PRO	A	151	-3.299	-5.051	-20.300	41.72	0.00	C
ATOM	603	C	PRO	A	151	-4.601	-5.273	-21.077	41.72	0.00	C
ATOM	604	O	PRO	A	151	-4.598	-5.259	-22.317	41.72	0.00	O
ATOM	605	N	ASP	A	152	-5.658	-5.505	-20.333	44.73	0.00	N
ATOM	606	CA	ASP	A	152	-6.988	-5.753	-20.794	44.73	0.00	C
ATOM	607	C	ASP	A	152	-7.910	-4.564	-20.707	44.73	0.00	C
ATOM	608	O	ASP	A	152	-8.921	-4.561	-21.326	44.73	0.00	O
ATOM	609	N	ARG	A	153	-7.550	-3.582	-19.909	52.13	0.00	N
ATOM	610	CA	ARG	A	153	-8.418	-2.528	-19.517	52.13	0.00	C
ATOM	611	C	ARG	A	153	-7.808	-1.437	-18.658	52.13	0.00	C
ATOM	612	O	ARG	A	153	-7.169	-1.665	-17.715	52.13	0.00	O
ATOM	613	N	ILE	A	154	-8.107	-0.221	-18.973	42.27	0.00	N
ATOM	614	CA	ILE	A	154	-7.873	0.874	-18.098	42.27	0.00	C
ATOM	615	C	ILE	A	154	-9.177	1.197	-17.432	42.27	0.00	C
ATOM	616	O	ILE	A	154	-10.135	1.182	-18.066	42.27	0.00	O
ATOM	617	N	ALA	A	155	-9.204	1.463	-16.150	45.33	0.00	N
ATOM	618	CA	ALA	A	155	-10.490	1.563	-15.403	45.33	0.00	C
ATOM	619	C	ALA	A	155	-10.307	2.411	-14.178	45.33	0.00	C
ATOM	620	O	ALA	A	155	-9.405	2.165	-13.464	45.33	0.00	O
ATOM	621	N	GLU	A	156	-11.159	3.389	-13.945	43.25	0.00	N
ATOM	622	CA	GLU	A	156	-10.959	4.392	-12.924	43.25	0.00	C
ATOM	623	C	GLU	A	156	-12.193	4.455	-12.023	43.25	0.00	C
ATOM	624	O	GLU	A	156	-13.299	4.455	-12.446	43.25	0.00	O
ATOM	625	N	TYR	A	157	-11.976	4.532	-10.746	49.46	0.00	N
ATOM	626	CA	TYR	A	157	-13.044	4.493	-9.764	49.46	0.00	C
ATOM	627	C	TYR	A	157	-12.934	5.658	-8.804	49.46	0.00	C
ATOM	628	O	TYR	A	157	-11.853	6.011	-8.265	49.46	0.00	O
ATOM	629	N	GLU	A	158	-14.055	6.253	-8.542	47.41	0.00	N
ATOM	630	CA	GLU	A	158	-14.108	7.361	-7.646	47.41	0.00	C
ATOM	631	C	GLU	A	158	-14.532	6.786	-6.302	47.41	0.00	C
ATOM	632	O	GLU	A	158	-15.602	6.184	-6.178	47.41	0.00	O
ATOM	633	N	ILE	A	159	-13.651	6.902	-5.311	51.83	0.00	N
ATOM	634	CA	ILE	A	159	-13.878	6.419	-3.939	51.83	0.00	C
ATOM	635	C	ILE	A	159	-13.755	7.649	-3.027	51.83	0.00	C
ATOM	636	O	ILE	A	159	-12.671	8.212	-2.918	51.83	0.00	O
ATOM	637	N	ASN	A	160	-14.849	8.038	-2.394	61.93	0.00	N
ATOM	638	CA	ASN	A	160	-14.894	9.274	-1.638	61.93	0.00	C
ATOM	639	C	ASN	A	160	-15.165	9.116	-0.146	61.93	0.00	C
ATOM	640	O	ASN	A	160	-14.949	10.056	0.594	61.93	0.00	O
ATOM	641	N	GLU	A	161	-15.536	7.926	0.306	47.82	0.00	N
ATOM	642	CA	GLU	A	161	-15.720	7.704	1.724	47.82	0.00	C
ATOM	643	C	GLU	A	161	-14.467	7.151	2.407	47.82	0.00	C
ATOM	644	O	GLU	A	161	-13.997	6.052	2.116	47.82	0.00	O
ATOM	645	N	PRO	A	162	-13.950	7.900	3.365	55.75	0.00	N
ATOM	646	CA	PRO	A	162	-12.848	7.426	4.187	55.75	0.00	C
ATOM	647	C	PRO	A	162	-13.323	6.439	5.227	55.75	0.00	C
ATOM	648	O	PRO	A	162	-14.483	6.537	5.645	55.75	0.00	O
ATOM	649	N	LEU	A	163	-12.444	5.517	5.661	62.98	0.00	N
ATOM	650	CA	LEU	A	163	-12.805	4.572	6.724	62.98	0.00	C
ATOM	651	C	LEU	A	163	-12.888	5.346	8.019	62.98	0.00	C
ATOM	652	O	LEU	A	163	-12.040	6.223	8.266	62.98	0.00	O
ATOM	653	N	ASP	A	164	-13.876	5.013	8.858	51.91	0.00	N
ATOM	654	CA	ASP	A	164	-13.934	5.590	10.207	51.91	0.00	C
ATOM	655	C	ASP	A	164	-12.616	5.280	10.928	51.91	0.00	C
ATOM	656	O	ASP	A	164	-11.940	4.300	10.622	51.91	0.00	O
ATOM	657	N	GLU	A	165	-12.301	6.090	11.926	46.92	0.00	N
ATOM	658	CA	GLU	A	165	-11.127	5.880	12.758	46.92	0.00	C
ATOM	659	C	GLU	A	165	-11.240	4.594	13.565	46.92	0.00	C
ATOM	660	O	GLU	A	165	-10.265	3.923	13.761	46.92	0.00	O
ATOM	661	N	ALA	A	166	-12.438	4.252	14.016	53.66	0.00	N
ATOM	662	CA	ALA	A	166	-12.662	3.006	14.753	53.66	0.00	C
ATOM	663	C	ALA	A	166	-12.336	1.750	13.921	53.66	0.00	C
ATOM	664	O	ALA	A	166	-11.761	0.808	14.415	53.66	0.00	O
ATOM	665	N	THR	A	167	-12.694	1.751	12.648	56.37	0.00	N
ATOM	666	CA	THR	A	167	-12.382	0.638	11.768	56.37	0.00	C
ATOM	667	C	THR	A	167	-10.872	0.497	11.623	56.37	0.00	C
ATOM	668	O	THR	A	167	-10.346	-0.601	11.637	56.37	0.00	O
ATOM	669	N	ILE	A	168	-10.171	1.619	11.528	67.38	0.00	N
ATOM	670	CA	ILE	A	168	-8.732	1.633	11.358	67.38	0.00	C
ATOM	671	C	ILE	A	168	-8.078	1.128	12.626	67.38	0.00	C
ATOM	672	O	ILE	A	168	-7.058	0.457	12.570	67.38	0.00	O
ATOM	673	N	VAL	A	169	-8.665	1.441	13.778	49.35	0.00	N
ATOM	674	CA	VAL	A	169	-8.132	0.957	15.026	49.35	0.00	C
ATOM	675	C	VAL	A	169	-8.314	-0.550	15.039	49.35	0.00	C
ATOM	676	O	VAL	A	169	-7.394	-1.257	15.440	49.35	0.00	O
ATOM	677	N	ARG	A	170	-9.472	-1.045	14.590	56.01	0.00	N
ATOM	678	CA	ARG	A	170	-9.700	-2.518	14.528	56.01	0.00	C
ATOM	679	C	ARG	A	170	-8.661	-3.202	13.604	56.01	0.00	C
ATOM	680	O	ARG	A	170	-8.069	-4.207	13.996	56.01	0.00	O
ATOM	681	N	LEU	A	171	-8.396	-2.610	12.430	73.24	0.00	N
ATOM	682	CA	LEU	A	171	-7.379	-3.127	11.527	73.24	0.00	C
ATOM	683	C	LEU	A	171	-6.020	-3.139	12.210	73.24	0.00	C
ATOM	684	O	LEU	A	171	-5.257	-4.108	12.109	73.24	0.00	O
ATOM	685	N	ALA	A	172	-5.723	-2.049	12.909	49.39	0.00	N
ATOM	686	CA	ALA	A	172	-4.457	-1.898	13.604	49.39	0.00	C
ATOM	687	C	ALA	A	172	-4.301	-2.947	14.696	49.39	0.00	C
ATOM	688	O	ALA	A	172	-3.240	-3.541	14.801	49.39	0.00	O

ATOM	689	N	GLU	A	173	-5.352	-3.187	15.479	55.60	0.00	N
ATOM	690	CA	GLU	A	173	-5.292	-4.177	16.568	55.60	0.00	C
ATOM	691	C	GLU	A	173	-4.915	-5.559	16.053	55.60	0.00	C
ATOM	692	O	GLU	A	173	-4.131	-6.255	16.707	55.60	0.00	O
ATOM	693	N	ASP	A	174	-5.506	-5.961	14.919	44.03	0.00	N
ATOM	694	CA	ASP	A	174	-5.208	-7.255	14.320	44.03	0.00	C
ATOM	695	C	ASP	A	174	-3.815	-7.301	13.840	44.03	0.00	C
ATOM	696	O	ASP	A	174	-3.169	-8.343	13.873	44.03	0.00	O
ATOM	697	N	THR	A	175	-3.325	-6.165	13.384	49.85	0.00	N
ATOM	698	CA	THR	A	175	-1.966	-6.171	12.887	49.85	0.00	C
ATOM	699	C	THR	A	175	-1.026	-6.460	14.019	49.85	0.00	C
ATOM	700	O	THR	A	175	-0.104	-7.267	13.894	49.85	0.00	O
ATOM	701	N	ILE	A	176	-1.312	-5.827	15.139	17.70	0.00	N
ATOM	702	CA	ILE	A	176	-0.456	-5.907	16.306	17.70	0.00	C
ATOM	703	C	ILE	A	176	-0.618	-7.264	17.013	17.70	0.00	C
ATOM	704	O	ILE	A	176	0.348	-7.982	17.191	17.70	0.00	O
ATOM	705	N	MSE	A	177	-1.846	-7.622	17.359	27.24	0.00	N
ATOM	706	CA	MSE	A	177	-2.110	-8.862	18.066	27.24	0.00	C
ATOM	707	C	MSE	A	177	-2.036	-10.148	17.184	27.24	0.00	C
ATOM	708	O	MSE	A	177	-2.230	-11.232	17.705	27.24	0.00	O
ATOM	709	N	LEU	A	178	-1.747	-10.045	15.885	45.20	0.00	N
ATOM	710	CA	LEU	A	178	-1.765	-11.195	14.931	45.20	0.00	C
ATOM	711	C	LEU	A	178	-3.082	-11.987	14.963	45.20	0.00	C
ATOM	712	O	LEU	A	178	-3.059	-13.216	14.908	45.20	0.00	O
ATOM	713	N	GLN	A	179	-4.195	-11.295	14.914	46.50	0.00	N
ATOM	714	CA	GLN	A	179	-5.488	-11.880	15.107	46.50	0.00	C
ATOM	715	C	GLN	A	179	-6.016	-12.818	14.022	46.50	0.00	C
ATOM	716	O	GLN	A	179	-6.283	-13.971	14.291	46.50	0.00	O
ATOM	717	N	ASN	A	180	-6.209	-12.312	12.822	46.72	0.00	N
ATOM	718	CA	ASN	A	180	-6.832	-13.100	11.723	46.72	0.00	C
ATOM	719	C	ASN	A	180	-5.958	-13.170	10.495	46.72	0.00	C
ATOM	720	O	ASN	A	180	-5.982	-12.302	9.632	46.72	0.00	O
ATOM	721	N	SER	A	181	-5.162	-14.213	10.431	59.21	0.00	N
ATOM	722	CA	SER	A	181	-4.294	-14.421	9.316	59.21	0.00	C
ATOM	723	C	SER	A	181	-4.685	-15.651	8.495	59.21	0.00	C
ATOM	724	O	SER	A	181	-4.793	-16.745	9.008	59.21	0.00	O
ATOM	725	N	PRO	A	182	-4.770	-15.497	7.199	65.34	0.00	N
ATOM	726	CA	PRO	A	182	-4.417	-14.305	6.461	65.34	0.00	C
ATOM	727	C	PRO	A	182	-5.557	-13.337	6.500	65.34	0.00	C
ATOM	728	O	PRO	A	182	-6.623	-13.675	7.004	65.34	0.00	O
ATOM	729	N	ARG	A	183	-5.357	-12.135	5.998	81.95	0.00	N
ATOM	730	CA	ARG	A	183	-6.436	-11.191	6.007	81.95	0.00	C
ATOM	731	C	ARG	A	183	-7.372	-11.579	4.893	81.95	0.00	C
ATOM	732	O	ARG	A	183	-8.603	-11.628	5.107	81.95	0.00	O
ATOM	733	N	PHE	A	184	-6.785	-11.851	3.718	48.95	0.00	N
ATOM	734	CA	PHE	A	184	-7.550	-12.410	2.590	48.95	0.00	C
ATOM	735	C	PHE	A	184	-7.017	-13.778	2.185	48.95	0.00	C
ATOM	736	O	PHE	A	184	-5.814	-14.039	2.233	48.95	0.00	O
ATOM	737	N	ASN	A	185	-7.926	-14.630	1.714	52.94	0.00	N
ATOM	738	CA	ASN	A	185	-7.604	-16.007	1.378	52.94	0.00	C
ATOM	739	C	ASN	A	185	-6.563	-16.229	0.291	52.94	0.00	C
ATOM	740	O	ASN	A	185	-5.857	-17.232	0.316	52.94	0.00	O
ATOM	741	N	TRP	A	186	-6.507	-15.349	-0.690	49.34	0.00	N
ATOM	742	CA	TRP	A	186	-5.602	-15.511	-1.821	49.34	0.00	C
ATOM	743	C	TRP	A	186	-4.124	-15.190	-1.442	49.34	0.00	C
ATOM	744	O	TRP	A	186	-3.168	-15.441	-2.207	49.34	0.00	O
ATOM	745	N	GLU	A	187	-3.932	-14.615	-0.259	69.55	0.00	N
ATOM	746	CA	GLU	A	187	-2.575	-14.179	0.176	69.55	0.00	C
ATOM	747	C	GLU	A	187	-1.511	-15.229	0.225	69.55	0.00	C
ATOM	748	O	GLU	A	187	-0.428	-15.028	-0.334	69.55	0.00	O
ATOM	749	N	CYS	A	188	-1.801	-16.352	0.884	43.75	0.00	N
ATOM	750	CA	CYS	A	188	-0.760	-17.344	1.180	43.75	0.00	C
ATOM	751	C	CYS	A	188	-0.146	-17.865	-0.127	43.75	0.00	C
ATOM	752	O	CYS	A	188	1.067	-18.120	-0.218	43.75	0.00	O
ATOM	753	N	LYS	A	189	-0.970	-17.963	-1.166	20.45	0.00	N
ATOM	754	CA	LYS	A	189	-0.511	-18.522	-2.447	20.45	0.00	C
ATOM	755	C	LYS	A	189	0.696	-17.731	-3.018	20.45	0.00	C
ATOM	756	O	LYS	A	189	1.569	-18.272	-3.724	20.45	0.00	O
ATOM	757	N	TYR	A	190	0.747	-16.439	-2.708	14.03	0.00	N
ATOM	758	CA	TYR	A	190	1.763	-15.611	-3.285	14.03	0.00	C
ATOM	759	C	TYR	A	190	2.819	-15.235	-2.248	14.03	0.00	C
ATOM	760	O	TYR	A	190	3.823	-14.654	-2.584	14.03	0.00	O
ATOM	761	N	CYS	A	191	2.587	-15.625	-0.997	35.90	0.00	N
ATOM	762	CA	CYS	A	191	3.353	-15.193	0.160	35.90	0.00	C
ATOM	763	C	CYS	A	191	4.692	-15.934	0.269	35.90	0.00	C
ATOM	764	O	CYS	A	191	4.732	-17.173	0.348	35.90	0.00	O
ATOM	765	N	ILE	A	192	5.784	-15.171	0.315	22.39	0.00	N
ATOM	766	CA	ILE	A	192	7.106	-15.776	0.279	22.39	0.00	C
ATOM	767	C	ILE	A	192	7.409	-16.403	1.615	22.39	0.00	C
ATOM	768	O	ILE	A	192	8.394	-17.068	1.711	22.39	0.00	O
ATOM	769	N	PHE	A	193	6.578	-16.191	2.632	23.80	0.00	N
ATOM	770	CA	PHE	A	193	6.786	-16.794	3.943	23.80	0.00	C
ATOM	771	C	PHE	A	193	5.984	-18.074	4.210	23.80	0.00	C
ATOM	772	O	PHE	A	193	5.990	-18.637	5.317	23.80	0.00	O
ATOM	773	N	SER	A	194	5.262	-18.513	3.198	36.08	0.00	N
ATOM	774	CA	SER	A	194	4.413	-19.711	3.328	36.08	0.00	C
ATOM	775	C	SER	A	194	5.249	-20.909	3.657	36.08	0.00	C
ATOM	776	O	SER	A	194	4.748	-21.746	4.298	36.08	0.00	O
ATOM	777	N	VAL	A	195	6.503	-20.952	3.199	33.25	0.00	N
ATOM	778	CA	VAL	A	195	7.410	-21.989	3.516	33.25	0.00	C
ATOM	779	C	VAL	A	195	7.733	-22.174	4.979	33.25	0.00	C
ATOM	780	O	VAL	A	195	8.309	-23.201	5.323	33.25	0.00	O

ATOM	781	N	ILE	A	196	7.419	-21.212	5.849	21.76	0.00	N
ATOM	782	CA	ILE	A	196	7.718	-21.354	7.295	21.76	0.00	C
ATOM	783	C	ILE	A	196	6.564	-20.975	8.148	21.76	0.00	C
ATOM	784	O	ILE	A	196	6.683	-20.972	9.331	21.76	0.00	O
ATOM	785	N	CYS	A	197	5.424	-20.671	7.561	34.17	0.00	N
ATOM	786	CA	CYS	A	197	4.335	-20.157	8.329	34.17	0.00	C
ATOM	787	C	CYS	A	197	3.331	-21.219	8.615	34.17	0.00	C
ATOM	788	O	CYS	A	197	2.836	-21.849	7.697	34.17	0.00	O
ATOM	789	N	PRO	A	198	2.960	-21.375	9.870	39.58	0.00	N
ATOM	790	CA	PRO	A	198	1.970	-22.338	10.280	39.58	0.00	C
ATOM	791	C	PRO	A	198	0.542	-22.046	9.971	39.58	0.00	C
ATOM	792	O	PRO	A	198	-0.290	-22.938	10.156	39.58	0.00	O
ATOM	793	N	ALA	A	199	0.227	-20.829	9.562	39.90	0.00	N
ATOM	794	CA	ALA	A	199	-1.167	-20.431	9.353	39.90	0.00	C
ATOM	795	C	ALA	A	199	-1.570	-20.467	7.877	39.90	0.00	C
ATOM	796	O	ALA	A	199	-2.731	-20.267	7.563	39.90	0.00	O
ATOM	797	N	LYS	A	200	-0.591	-20.655	6.991	31.81	0.00	N
ATOM	798	CA	LYS	A	200	-0.778	-20.823	5.548	31.81	0.00	C
ATOM	799	C	LYS	A	200	-1.946	-21.672	5.236	31.81	0.00	C
ATOM	800	O	LYS	A	200	-2.051	-22.735	5.769	31.81	0.00	O
ATOM	801	N	LEU	A	201	-2.799	-21.218	4.328	38.75	0.00	N
ATOM	802	CA	LEU	A	201	-3.935	-22.003	3.876	38.75	0.00	C
ATOM	803	C	LEU	A	201	-3.511	-23.046	2.859	38.75	0.00	C
ATOM	804	O	LEU	A	201	-2.649	-22.775	2.009	38.75	0.00	O
ATOM	805	N	THR	A	202	-4.127	-24.225	2.953	45.33	0.00	N
ATOM	806	CA	THR	A	202	-3.796	-25.369	2.082	45.33	0.00	C
ATOM	807	C	THR	A	202	-5.038	-25.920	1.370	45.33	0.00	C
ATOM	808	O	THR	A	202	-6.101	-25.964	1.999	45.33	0.00	O
TER	809		THR	A	202						

ENDMDL

END

REMARK 1 \*\*\*\*\*

REMARK 1 Start File NAT\_vs\_DEC5\_dSi\_colored.pdb

REMARK 1 The occupancy record was modified to represent dSi := Si(DEC)-Si(NAT).

REMARK 1 Occ=0.00 means dSi=-1.555227 kB; Occ=99.99 means dSi=1.594793 kB.

MODEL

ATOM	1	N	MSE	A	1	23.268	-4.104	-18.521	45.76	0.00	N
ATOM	2	CA	MSE	A	1	23.439	-2.722	-18.016	45.76	0.00	C
ATOM	3	C	MSE	A	1	22.152	-2.161	-17.383	45.76	0.00	C
ATOM	4	O	MSE	A	1	22.147	-1.650	-16.252	45.76	0.00	O
ATOM	5	N	ILE	A	2	21.045	-2.254	-18.100	46.21	0.00	N
ATOM	6	CA	ILE	A	2	19.816	-1.632	-17.608	46.21	0.00	C
ATOM	7	C	ILE	A	2	19.269	-2.405	-16.412	46.21	0.00	C
ATOM	8	O	ILE	A	2	18.935	-1.835	-15.391	46.21	0.00	O
ATOM	9	N	THR	A	3	19.186	-3.703	-16.563	45.10	0.00	N
ATOM	10	CA	THR	A	3	18.718	-4.606	-15.498	45.10	0.00	C
ATOM	11	C	THR	A	3	19.478	-4.398	-14.212	45.10	0.00	C
ATOM	12	O	THR	A	3	18.884	-4.188	-13.150	45.10	0.00	O
ATOM	13	N	GLU	A	4	20.800	-4.447	-14.318	48.31	0.00	N
ATOM	14	CA	GLU	A	4	21.687	-4.148	-13.195	48.31	0.00	C
ATOM	15	C	GLU	A	4	21.342	-2.832	-12.484	48.31	0.00	C
ATOM	16	O	GLU	A	4	21.232	-2.791	-11.242	48.31	0.00	O
ATOM	17	N	PHE	A	5	21.133	-1.765	-13.247	48.37	0.00	N
ATOM	18	CA	PHE	A	5	20.826	-0.486	-12.602	48.37	0.00	C
ATOM	19	C	PHE	A	5	19.486	-0.520	-11.886	48.37	0.00	C
ATOM	20	O	PHE	A	5	19.415	-0.122	-10.736	48.37	0.00	O
ATOM	21	N	LEU	A	6	18.429	-1.039	-12.529	36.80	0.00	N
ATOM	22	CA	LEU	A	6	17.100	-1.072	-11.873	36.80	0.00	C
ATOM	23	C	LEU	A	6	17.119	-1.921	-10.586	36.80	0.00	C
ATOM	24	O	LEU	A	6	16.551	-1.545	-9.531	36.80	0.00	O
ATOM	25	N	LEU	A	7	17.767	-3.071	-10.672	54.72	0.00	N
ATOM	26	CA	LEU	A	7	17.843	-3.929	-9.486	54.72	0.00	C
ATOM	27	C	LEU	A	7	18.603	-3.241	-8.341	54.72	0.00	C
ATOM	28	O	LEU	A	7	18.190	-3.292	-7.184	54.72	0.00	O
ATOM	29	N	LYS	A	8	19.691	-2.566	-8.693	51.73	0.00	N
ATOM	30	CA	LYS	A	8	20.463	-1.856	-7.680	51.73	0.00	C
ATOM	31	C	LYS	A	8	19.628	-0.762	-7.044	51.73	0.00	C
ATOM	32	O	LYS	A	8	19.527	-0.688	-5.819	51.73	0.00	O
ATOM	33	N	LYS	A	9	18.947	0.036	-7.860	52.97	0.00	N
ATOM	34	CA	LYS	A	9	18.144	1.113	-7.292	52.97	0.00	C
ATOM	35	C	LYS	A	9	17.009	0.545	-6.471	52.97	0.00	C
ATOM	36	O	LYS	A	9	16.708	1.086	-5.402	52.97	0.00	O
ATOM	37	N	LYS	A	10	16.379	-0.547	-6.912	52.55	0.00	N
ATOM	38	CA	LYS	A	10	15.262	-1.072	-6.116	52.55	0.00	C
ATOM	39	C	LYS	A	10	15.660	-1.681	-4.726	52.55	0.00	C
ATOM	40	O	LYS	A	10	14.931	-1.547	-3.695	52.55	0.00	O
ATOM	41	N	LEU	A	11	16.798	-2.366	-4.699	38.88	0.00	N
ATOM	42	CA	LEU	A	11	17.328	-2.879	-3.411	38.88	0.00	C
ATOM	43	C	LEU	A	11	17.613	-1.686	-2.439	38.88	0.00	C
ATOM	44	O	LEU	A	11	17.179	-1.698	-1.270	38.88	0.00	O
ATOM	45	N	GLU	A	12	18.299	-0.655	-2.945	45.02	0.00	N
ATOM	46	CA	GLU	A	12	18.475	0.605	-2.181	45.02	0.00	C
ATOM	47	C	GLU	A	12	17.179	1.213	-1.616	45.02	0.00	C
ATOM	48	O	GLU	A	12	17.048	1.390	-0.426	45.02	0.00	O
ATOM	49	N	GLU	A	13	16.225	1.536	-2.461	49.97	0.00	N
ATOM	50	CA	GLU	A	13	14.901	1.950	-1.974	49.97	0.00	C
ATOM	51	C	GLU	A	13	14.358	1.037	-0.868	49.97	0.00	C
ATOM	52	O	GLU	A	13	13.966	1.505	0.190	49.97	0.00	O
ATOM	53	N	HIS	A	14	14.335	-0.267	-1.101	31.53	0.00	N
ATOM	54	CA	HIS	A	14	13.794	-1.199	-0.106	31.53	0.00	C
ATOM	55	C	HIS	A	14	14.560	-1.126	1.236	31.53	0.00	C
ATOM	56	O	HIS	A	14	13.970	-1.122	2.322	31.53	0.00	O

ATOM	57	N	LEU	A	15	15.884	-1.079	1.145	13.88	0.00	N
ATOM	58	CA	LEU	A	15	16.750	-1.011	2.322	13.88	0.00	C
ATOM	59	C	LEU	A	15	16.724	0.377	2.988	13.88	0.00	C
ATOM	60	O	LEU	A	15	17.114	0.492	4.140	13.88	0.00	O
ATOM	61	N	SER	A	16	16.283	1.421	2.277	30.48	0.00	N
ATOM	62	CA	SER	A	16	16.215	2.761	2.870	30.48	0.00	C
ATOM	63	C	SER	A	16	15.126	2.866	3.937	30.48	0.00	C
ATOM	64	O	SER	A	16	15.184	3.766	4.746	30.48	0.00	O
ATOM	65	N	HIS	A	17	14.126	1.987	3.905	47.88	0.00	N
ATOM	66	CA	HIS	A	17	12.931	2.175	4.710	47.88	0.00	C
ATOM	67	C	HIS	A	17	12.911	1.290	5.925	47.88	0.00	C
ATOM	68	O	HIS	A	17	12.211	0.285	5.939	47.88	0.00	O
ATOM	69	N	VAL	A	18	13.667	1.662	6.952	27.03	0.00	N
ATOM	70	CA	VAL	A	18	13.649	0.930	8.226	27.03	0.00	C
ATOM	71	C	VAL	A	18	12.455	1.416	9.073	27.03	0.00	C
ATOM	72	O	VAL	A	18	12.231	2.619	9.198	27.03	0.00	O
ATOM	73	N	LYS	A	19	11.711	0.480	9.654	25.84	0.00	N
ATOM	74	CA	LYS	A	19	10.394	0.738	10.251	25.84	0.00	C
ATOM	75	C	LYS	A	19	10.466	0.797	11.779	25.84	0.00	C
ATOM	76	O	LYS	A	19	11.024	-0.102	12.394	25.84	0.00	O
ATOM	77	N	GLU	A	20	9.892	1.832	12.391	52.41	0.00	N
ATOM	78	CA	GLU	A	20	10.003	2.007	13.848	52.41	0.00	C
ATOM	79	C	GLU	A	20	8.986	1.178	14.597	52.41	0.00	C
ATOM	80	O	GLU	A	20	7.952	0.808	14.049	52.41	0.00	O
ATOM	81	N	GLU	A	21	9.300	0.899	15.861	47.67	0.00	N
ATOM	82	CA	GLU	A	21	8.634	-0.168	16.607	47.67	0.00	C
ATOM	83	C	GLU	A	21	7.153	0.124	16.844	47.67	0.00	C
ATOM	84	O	GLU	A	21	6.369	-0.811	17.040	47.67	0.00	O
ATOM	85	N	ASN	A	22	6.774	1.399	16.808	55.84	0.00	N
ATOM	86	CA	ASN	A	22	5.371	1.790	16.970	55.84	0.00	C
ATOM	87	C	ASN	A	22	4.716	2.391	15.715	55.84	0.00	C
ATOM	88	O	ASN	A	22	3.648	3.000	15.824	55.84	0.00	O
ATOM	89	N	THR	A	23	5.339	2.269	14.540	52.17	0.00	N
ATOM	90	CA	THR	A	23	4.636	2.674	13.297	52.17	0.00	C
ATOM	91	C	THR	A	23	3.937	1.492	12.597	52.17	0.00	C
ATOM	92	O	THR	A	23	4.343	0.315	12.707	52.17	0.00	O
ATOM	93	N	ILE	A	24	2.863	1.841	11.907	52.05	0.00	N
ATOM	94	CA	ILE	A	24	2.133	0.908	11.089	52.05	0.00	C
ATOM	95	C	ILE	A	24	1.893	1.588	9.781	52.05	0.00	C
ATOM	96	O	ILE	A	24	1.270	2.646	9.760	52.05	0.00	O
ATOM	97	N	TYR	A	25	2.393	1.015	8.691	49.96	0.00	N
ATOM	98	CA	TYR	A	25	2.072	1.558	7.393	49.96	0.00	C
ATOM	99	C	TYR	A	25	0.609	1.246	7.051	49.96	0.00	C
ATOM	100	O	TYR	A	25	0.029	0.273	7.510	49.96	0.00	O
ATOM	101	N	VAL	A	26	0.019	2.088	6.230	44.54	0.00	N
ATOM	102	CA	VAL	A	26	-1.326	1.856	5.716	44.54	0.00	C
ATOM	103	C	VAL	A	26	-1.394	0.504	4.989	44.54	0.00	C
ATOM	104	O	VAL	A	26	-2.320	-0.244	5.138	44.54	0.00	O
ATOM	105	N	THR	A	27	-0.413	0.264	4.153	50.31	0.00	N
ATOM	106	CA	THR	A	27	-0.225	-0.940	3.432	50.31	0.00	C
ATOM	107	C	THR	A	27	-0.214	-2.155	4.325	50.31	0.00	C
ATOM	108	O	THR	A	27	-0.816	-3.189	4.005	50.31	0.00	O
ATOM	109	N	ASP	A	28	0.421	-2.066	5.476	54.19	0.00	N
ATOM	110	CA	ASP	A	28	0.217	-3.125	6.447	54.19	0.00	C
ATOM	111	C	ASP	A	28	-1.221	-3.366	6.899	54.19	0.00	C
ATOM	112	O	ASP	A	28	-1.560	-4.494	7.172	54.19	0.00	O
ATOM	113	N	LEU	A	29	-2.082	-2.355	6.958	58.99	0.00	N
ATOM	114	CA	LEU	A	29	-3.418	-2.565	7.521	58.99	0.00	C
ATOM	115	C	LEU	A	29	-4.304	-3.447	6.637	58.99	0.00	C
ATOM	116	O	LEU	A	29	-5.335	-3.962	7.065	58.99	0.00	O
ATOM	117	N	VAL	A	30	-3.930	-3.597	5.378	54.59	0.00	N
ATOM	118	CA	VAL	A	30	-4.776	-4.325	4.449	54.59	0.00	C
ATOM	119	C	VAL	A	30	-4.099	-5.619	4.014	54.59	0.00	C
ATOM	120	O	VAL	A	30	-4.413	-6.174	2.971	54.59	0.00	O
ATOM	121	N	ARG	A	31	-3.154	-6.069	4.828	99.99	0.00	N
ATOM	122	CA	ARG	A	31	-2.426	-7.287	4.613	99.99	0.00	C
ATOM	123	C	ARG	A	31	-2.433	-8.174	5.834	99.99	0.00	C
ATOM	124	O	ARG	A	31	-2.927	-7.806	6.907	99.99	0.00	O
ATOM	125	N	CYS	A	32	-1.955	-9.395	5.616	79.02	0.00	N
ATOM	126	CA	CYS	A	32	-1.910	-10.426	6.637	79.02	0.00	C
ATOM	127	C	CYS	A	32	-1.015	-9.951	7.770	79.02	0.00	C
ATOM	128	O	CYS	A	32	0.134	-9.567	7.534	79.02	0.00	O
ATOM	129	N	PRO	A	33	-1.508	-10.024	8.999	65.88	0.00	N
ATOM	130	CA	PRO	A	33	-0.664	-9.610	10.083	65.88	0.00	C
ATOM	131	C	PRO	A	33	0.611	-10.429	10.223	65.88	0.00	C
ATOM	132	O	PRO	A	33	1.694	-9.852	10.411	65.88	0.00	O
ATOM	133	N	ARG	A	34	0.512	-11.757	10.119	59.12	0.00	N
ATOM	134	CA	ARG	A	34	1.689	-12.574	10.256	59.12	0.00	C
ATOM	135	C	ARG	A	34	2.720	-12.198	9.218	59.12	0.00	C
ATOM	136	O	ARG	A	34	3.911	-12.267	9.453	59.12	0.00	O
ATOM	137	N	ARG	A	35	2.276	-11.837	8.033	93.15	0.00	N
ATOM	138	CA	ARG	A	35	3.238	-11.530	6.965	93.15	0.00	C
ATOM	139	C	ARG	A	35	3.971	-10.221	7.251	93.15	0.00	C
ATOM	140	O	ARG	A	35	5.151	-10.042	6.901	93.15	0.00	O
ATOM	141	N	VAL	A	36	3.228	-9.297	7.848	55.58	0.00	N
ATOM	142	CA	VAL	A	36	3.791	-7.981	8.175	55.58	0.00	C
ATOM	143	C	VAL	A	36	4.864	-8.200	9.230	55.58	0.00	C
ATOM	144	O	VAL	A	36	5.972	-7.734	9.085	55.58	0.00	O
ATOM	145	N	ARG	A	37	4.561	-8.972	10.259	20.52	0.00	N
ATOM	146	CA	ARG	A	37	5.600	-9.259	11.227	20.52	0.00	C
ATOM	147	C	ARG	A	37	6.749	-10.045	10.630	20.52	0.00	C
ATOM	148	O	ARG	A	37	7.879	-9.890	11.061	20.52	0.00	O

ATOM	149	N	TYR	A	38	6.481	-10.904	9.649	54.45	0.00	N
ATOM	150	CA	TYR	A	38	7.570	-11.660	9.036	54.45	0.00	C
ATOM	151	C	TYR	A	38	8.499	-10.724	8.363	54.45	0.00	C
ATOM	152	O	TYR	A	38	9.689	-10.942	8.377	54.45	0.00	O
ATOM	153	N	GLU	A	39	7.963	-9.678	7.760	73.98	0.00	N
ATOM	154	CA	GLU	A	39	8.816	-8.667	7.126	73.98	0.00	C
ATOM	155	C	GLU	A	39	9.769	-7.904	8.077	73.98	0.00	C
ATOM	156	O	GLU	A	39	10.773	-7.394	7.597	73.98	0.00	O
ATOM	157	N	SER	A	40	9.464	-7.844	9.380	37.54	0.00	N
ATOM	158	CA	SER	A	40	10.398	-7.338	10.412	37.54	0.00	C
ATOM	159	C	SER	A	40	11.345	-8.393	10.958	37.54	0.00	C
ATOM	160	O	SER	A	40	12.540	-8.130	11.114	37.54	0.00	O
ATOM	161	N	GLU	A	41	10.808	-9.578	11.263	2.00	0.00	N
ATOM	162	CA	GLU	A	41	11.604	-10.637	11.865	2.00	0.00	C
ATOM	163	C	GLU	A	41	12.456	-11.415	10.889	2.00	0.00	C
ATOM	164	O	GLU	A	41	13.321	-12.135	11.370	2.00	0.00	O
ATOM	165	N	TYR	A	42	12.238	-11.336	9.566	52.16	0.00	N
ATOM	166	CA	TYR	A	42	13.052	-12.135	8.586	52.16	0.00	C
ATOM	167	C	TYR	A	42	13.369	-11.290	7.378	52.16	0.00	C
ATOM	168	O	TYR	A	42	13.024	-11.599	6.196	52.16	0.00	O
ATOM	169	N	LYS	A	43	14.059	-10.210	7.691	61.43	0.00	N
ATOM	170	CA	LYS	A	43	14.286	-9.169	6.756	61.43	0.00	C
ATOM	171	C	LYS	A	43	15.175	-9.664	5.651	61.43	0.00	C
ATOM	172	O	LYS	A	43	15.118	-9.127	4.534	61.43	0.00	O
ATOM	173	N	GLU	A	44	16.024	-10.635	5.936	40.87	0.00	N
ATOM	174	CA	GLU	A	44	16.906	-11.087	4.887	40.87	0.00	C
ATOM	175	C	GLU	A	44	16.077	-11.799	3.791	40.87	0.00	C
ATOM	176	O	GLU	A	44	16.309	-11.615	2.572	40.87	0.00	O
ATOM	177	N	LEU	A	45	15.070	-12.551	4.234	34.19	0.00	N
ATOM	178	CA	LEU	A	45	14.177	-13.244	3.311	34.19	0.00	C
ATOM	179	C	LEU	A	45	13.268	-12.185	2.642	34.19	0.00	C
ATOM	180	O	LEU	A	45	13.095	-12.177	1.406	34.19	0.00	O
ATOM	181	N	ALA	A	46	12.710	-11.278	3.448	56.47	0.00	N
ATOM	182	CA	ALA	A	46	11.893	-10.178	2.897	56.47	0.00	C
ATOM	183	C	ALA	A	46	12.519	-9.534	1.649	56.47	0.00	C
ATOM	184	O	ALA	A	46	11.825	-9.262	0.709	56.47	0.00	O
ATOM	185	N	ILE	A	47	13.830	-9.341	1.634	44.14	0.00	N
ATOM	186	CA	ILE	A	47	14.526	-8.691	0.538	44.14	0.00	C
ATOM	187	C	ILE	A	47	14.299	-9.332	-0.838	44.14	0.00	C
ATOM	188	O	ILE	A	47	14.451	-8.669	-1.895	44.14	0.00	O
ATOM	189	N	SER	A	48	13.959	-10.620	-0.874	56.13	0.00	N
ATOM	190	CA	SER	A	48	13.715	-11.277	-2.169	56.13	0.00	C
ATOM	191	C	SER	A	48	12.509	-10.666	-2.882	56.13	0.00	C
ATOM	192	O	SER	A	48	12.401	-10.723	-4.108	56.13	0.00	O
ATOM	193	N	GLN	A	49	11.610	-10.068	-2.123	63.24	0.00	N
ATOM	194	CA	GLN	A	49	10.459	-9.434	-2.743	63.24	0.00	C
ATOM	195	C	GLN	A	49	10.847	-8.226	-3.623	63.24	0.00	C
ATOM	196	O	GLN	A	49	10.116	-7.889	-4.482	63.24	0.00	O
ATOM	197	N	VAL	A	50	12.031	-7.643	-3.424	56.27	0.00	N
ATOM	198	CA	VAL	A	50	12.659	-6.700	-4.358	56.27	0.00	C
ATOM	199	C	VAL	A	50	12.750	-7.176	-5.802	56.27	0.00	C
ATOM	200	O	VAL	A	50	12.805	-6.373	-6.754	56.27	0.00	O
ATOM	201	N	TYR	A	51	12.865	-8.468	-5.991	45.04	0.00	N
ATOM	202	CA	TYR	A	51	13.231	-8.953	-7.306	45.04	0.00	C
ATOM	203	C	TYR	A	51	12.000	-9.515	-8.013	45.04	0.00	C
ATOM	204	O	TYR	A	51	12.116	-10.179	-9.031	45.04	0.00	O
ATOM	205	N	ALA	A	52	10.823	-9.258	-7.445	44.86	0.00	N
ATOM	206	CA	ALA	A	52	9.580	-9.586	-8.075	44.86	0.00	C
ATOM	207	C	ALA	A	52	9.375	-8.694	-9.336	44.86	0.00	C
ATOM	208	O	ALA	A	52	9.152	-7.478	-9.216	44.86	0.00	O
ATOM	209	N	PRO	A	53	9.401	-9.282	-10.541	43.70	0.00	N
ATOM	210	CA	PRO	A	53	9.338	-8.519	-11.804	43.70	0.00	C
ATOM	211	C	PRO	A	53	8.051	-7.715	-11.969	43.70	0.00	C
ATOM	212	O	PRO	A	53	8.107	-6.662	-12.589	43.70	0.00	O
ATOM	213	N	SER	A	54	6.912	-8.185	-11.428	42.78	0.00	N
ATOM	214	CA	SER	A	54	5.662	-7.382	-11.372	42.78	0.00	C
ATOM	215	C	SER	A	54	5.807	-6.143	-10.551	42.78	0.00	C
ATOM	216	O	SER	A	54	5.159	-5.116	-10.806	42.78	0.00	O
ATOM	217	N	ALA	A	55	6.666	-6.210	-9.534	45.72	0.00	N
ATOM	218	CA	ALA	A	55	6.871	-5.023	-8.707	45.72	0.00	C
ATOM	219	C	ALA	A	55	7.756	-4.055	-9.490	45.72	0.00	C
ATOM	220	O	ALA	A	55	7.598	-2.860	-9.403	45.72	0.00	O
ATOM	221	N	ILE	A	56	8.662	-4.543	-10.314	37.37	0.00	N
ATOM	222	CA	ILE	A	56	9.562	-3.610	-11.005	37.37	0.00	C
ATOM	223	C	ILE	A	56	8.724	-2.964	-12.115	37.37	0.00	C
ATOM	224	O	ILE	A	56	8.790	-1.755	-12.348	37.37	0.00	O
ATOM	225	N	LEU	A	57	7.912	-3.805	-12.760	21.14	0.00	N
ATOM	226	CA	LEU	A	57	6.935	-3.366	-13.747	21.14	0.00	C
ATOM	227	C	LEU	A	57	6.033	-2.336	-13.087	21.14	0.00	C
ATOM	228	O	LEU	A	57	5.874	-1.207	-13.590	21.14	0.00	O
ATOM	229	N	GLY	A	58	5.483	-2.701	-11.946	40.76	0.00	N
ATOM	230	CA	GLY	A	58	4.634	-1.806	-11.182	40.76	0.00	C
ATOM	231	C	GLY	A	58	5.258	-0.473	-10.875	40.76	0.00	C
ATOM	232	O	GLY	A	58	4.607	0.560	-11.036	40.76	0.00	O
ATOM	233	N	ASP	A	59	6.514	-0.439	-10.443	51.13	0.00	N
ATOM	234	CA	ASP	A	59	7.150	0.844	-10.105	51.13	0.00	C
ATOM	235	C	ASP	A	59	7.486	1.775	-11.275	51.13	0.00	C
ATOM	236	O	ASP	A	59	7.461	2.943	-11.121	51.13	0.00	O
ATOM	237	N	ILE	A	60	7.874	1.212	-12.405	29.56	0.00	N
ATOM	238	CA	ILE	A	60	8.072	1.923	-13.651	29.56	0.00	C
ATOM	239	C	ILE	A	60	6.774	2.586	-14.133	29.56	0.00	C
ATOM	240	O	ILE	A	60	6.798	3.761	-14.559	29.56	0.00	O

ATOM	241	N	LEU	A	61	5.641	1.870	-14.058	26.41	0.00	N
ATOM	242	CA	LEU	A	61	4.334	2.454	-14.392	26.41	0.00	C
ATOM	243	C	LEU	A	61	4.024	3.653	-13.537	26.41	0.00	C
ATOM	244	O	LEU	A	61	3.668	4.678	-14.050	26.41	0.00	O
ATOM	245	N	HIS	A	62	4.172	3.508	-12.232	53.85	0.00	N
ATOM	246	CA	HIS	A	62	3.968	4.616	-11.306	53.85	0.00	C
ATOM	247	C	HIS	A	62	4.884	5.714	-11.684	53.85	0.00	C
ATOM	248	O	HIS	A	62	4.443	6.854	-11.841	53.85	0.00	O
ATOM	249	N	LEU	A	63	6.158	5.423	-11.888	53.09	0.00	N
ATOM	250	CA	LEU	A	63	7.034	6.526	-12.325	53.09	0.00	C
ATOM	251	C	LEU	A	63	6.405	7.217	-13.537	53.09	0.00	C
ATOM	252	O	LEU	A	63	6.167	8.394	-13.497	53.09	0.00	O
ATOM	253	N	GLY	A	64	6.109	6.499	-14.603	47.77	0.00	N
ATOM	254	CA	GLY	A	64	5.719	7.158	-15.811	47.77	0.00	C
ATOM	255	C	GLY	A	64	4.400	7.890	-15.740	47.77	0.00	C
ATOM	256	O	GLY	A	64	4.174	8.755	-16.509	47.77	0.00	O
ATOM	257	N	LEU	A	65	3.499	7.454	-14.886	26.44	0.00	N
ATOM	258	CA	LEU	A	65	2.129	7.928	-14.922	26.44	0.00	C
ATOM	259	C	LEU	A	65	2.136	9.075	-13.968	26.44	0.00	C
ATOM	260	O	LEU	A	65	1.699	10.153	-14.266	26.44	0.00	O
ATOM	261	N	GLU	A	66	2.672	8.845	-12.789	54.44	0.00	N
ATOM	262	CA	GLU	A	66	3.061	9.970	-11.943	54.44	0.00	C
ATOM	263	C	GLU	A	66	3.702	11.154	-12.688	54.44	0.00	C
ATOM	264	O	GLU	A	66	3.297	12.272	-12.436	54.44	0.00	O
ATOM	265	N	SER	A	67	4.665	10.981	-13.581	47.72	0.00	N
ATOM	266	CA	SER	A	67	5.183	12.221	-14.250	47.72	0.00	C
ATOM	267	C	SER	A	67	4.100	13.012	-15.067	47.72	0.00	C
ATOM	268	O	SER	A	67	4.182	14.248	-15.203	47.72	0.00	O
ATOM	269	N	VAL	A	68	3.091	12.293	-15.600	48.52	0.00	N
ATOM	270	CA	VAL	A	68	1.939	12.934	-16.238	48.52	0.00	C
ATOM	271	C	VAL	A	68	1.158	13.773	-15.231	48.52	0.00	C
ATOM	272	O	VAL	A	68	0.645	14.865	-15.520	48.52	0.00	O
ATOM	273	N	LEU	A	69	1.040	13.216	-14.047	40.41	0.00	N
ATOM	274	CA	LEU	A	69	0.261	13.818	-13.004	40.41	0.00	C
ATOM	275	C	LEU	A	69	0.848	15.118	-12.430	40.41	0.00	C
ATOM	276	O	LEU	A	69	0.134	15.992	-11.952	40.41	0.00	O
ATOM	277	N	LYS	A	70	2.165	15.215	-12.445	41.93	0.00	N
ATOM	278	CA	LYS	A	70	2.860	16.356	-11.911	41.93	0.00	C
ATOM	279	C	LYS	A	70	2.708	17.450	-12.934	41.93	0.00	C
ATOM	280	O	LYS	A	70	2.497	18.596	-12.562	41.93	0.00	O
ATOM	281	N	GLY	A	71	2.769	17.105	-14.229	46.57	0.00	N
ATOM	282	CA	GLY	A	71	2.550	18.111	-15.305	46.57	0.00	C
ATOM	283	C	GLY	A	71	1.130	18.685	-15.376	46.57	0.00	C
ATOM	284	O	GLY	A	71	0.821	19.815	-14.923	46.57	0.00	O
ATOM	285	N	ASN	A	72	0.217	17.876	-15.876	46.68	0.00	N
ATOM	286	CA	ASN	A	72	-1.095	18.370	-16.206	46.68	0.00	C
ATOM	287	C	ASN	A	72	-2.040	18.612	-15.074	46.68	0.00	C
ATOM	288	O	ASN	A	72	-2.921	19.420	-15.211	46.68	0.00	O
ATOM	289	N	PHE	A	73	-1.880	17.933	-13.966	43.70	0.00	N
ATOM	290	CA	PHE	A	73	-2.766	18.118	-12.847	43.70	0.00	C
ATOM	291	C	PHE	A	73	-2.091	18.771	-11.639	43.70	0.00	C
ATOM	292	O	PHE	A	73	-2.674	18.861	-10.593	43.70	0.00	O
ATOM	293	N	ASN	A	74	-0.838	19.166	-11.735	53.08	0.00	N
ATOM	294	CA	ASN	A	74	-0.201	19.781	-10.582	53.08	0.00	C
ATOM	295	C	ASN	A	74	-0.355	18.949	-9.279	53.08	0.00	C
ATOM	296	O	ASN	A	74	-0.590	19.474	-8.165	53.08	0.00	O
ATOM	297	N	ALA	A	75	-0.160	17.641	-9.414	38.69	0.00	N
ATOM	298	CA	ALA	A	75	-0.115	16.792	-8.245	38.69	0.00	C
ATOM	299	C	ALA	A	75	1.282	16.777	-7.622	38.69	0.00	C
ATOM	300	O	ALA	A	75	2.270	16.992	-8.289	38.69	0.00	O
ATOM	301	N	GLU	A	76	1.336	16.530	-6.332	45.22	0.00	N
ATOM	302	CA	GLU	A	76	2.559	16.069	-5.695	45.22	0.00	C
ATOM	303	C	GLU	A	76	2.544	14.546	-5.834	45.22	0.00	C
ATOM	304	O	GLU	A	76	1.466	13.957	-5.865	45.22	0.00	O
ATOM	305	N	THR	A	77	3.710	13.915	-5.909	56.43	0.00	N
ATOM	306	CA	THR	A	77	3.794	12.484	-6.087	56.43	0.00	C
ATOM	307	C	THR	A	77	4.639	11.898	-4.978	56.43	0.00	C
ATOM	308	O	THR	A	77	5.510	12.566	-4.500	56.43	0.00	O
ATOM	309	N	GLU	A	78	4.321	10.666	-4.562	57.47	0.00	N
ATOM	310	CA	GLU	A	78	4.988	9.920	-3.517	57.47	0.00	C
ATOM	311	C	GLU	A	78	5.020	10.703	-2.232	57.47	0.00	C
ATOM	312	O	GLU	A	78	6.063	10.936	-1.623	57.47	0.00	O
ATOM	313	N	VAL	A	79	3.826	11.074	-1.816	35.16	0.00	N
ATOM	314	CA	VAL	A	79	3.635	12.010	-0.767	35.16	0.00	C
ATOM	315	C	VAL	A	79	3.474	11.303	0.544	35.16	0.00	C
ATOM	316	O	VAL	A	79	2.510	10.573	0.774	35.16	0.00	O
ATOM	317	N	GLU	A	80	4.416	11.580	1.421	42.23	0.00	N
ATOM	318	CA	GLU	A	80	4.530	10.857	2.668	42.23	0.00	C
ATOM	319	C	GLU	A	80	3.901	11.655	3.780	42.23	0.00	C
ATOM	320	O	GLU	A	80	4.090	12.840	3.853	42.23	0.00	O
ATOM	321	N	THR	A	81	3.177	11.027	4.670	32.21	0.00	N
ATOM	322	CA	THR	A	81	2.510	11.744	5.761	32.21	0.00	C
ATOM	323	C	THR	A	81	2.133	10.811	6.884	32.21	0.00	C
ATOM	324	O	THR	A	81	2.164	9.597	6.754	32.21	0.00	O
ATOM	325	N	LEU	A	82	1.667	11.373	7.976	30.57	0.00	N
ATOM	326	CA	LEU	A	82	1.644	10.601	9.202	30.57	0.00	C
ATOM	327	C	LEU	A	82	0.492	11.060	10.035	30.57	0.00	C
ATOM	328	O	LEU	A	82	0.098	12.203	9.950	30.57	0.00	O
ATOM	329	N	ARG	A	83	-0.124	10.141	10.761	43.98	0.00	N
ATOM	330	CA	ARG	A	83	-1.326	10.449	11.518	43.98	0.00	C
ATOM	331	C	ARG	A	83	-1.368	9.467	12.659	43.98	0.00	C
ATOM	332	O	ARG	A	83	-0.926	8.327	12.512	43.98	0.00	O

ATOM	333	N	GLU	A	84	-1.873	9.890	13.809	48.79	0.00	N
ATOM	334	CA	GLU	A	84	-1.727	9.022	14.978	48.79	0.00	C
ATOM	335	C	GLU	A	84	-3.042	8.425	15.425	48.79	0.00	C
ATOM	336	O	GLU	A	84	-4.110	8.996	15.183	48.79	0.00	O
ATOM	337	N	ILE	A	85	-2.918	7.275	16.095	54.30	0.00	N
ATOM	338	CA	ILE	A	85	-4.029	6.451	16.449	54.30	0.00	C
ATOM	339	C	ILE	A	85	-3.781	5.841	17.813	54.30	0.00	C
ATOM	340	O	ILE	A	85	-2.643	5.507	18.123	54.30	0.00	O
ATOM	341	N	ASN	A	86	-4.840	5.701	18.619	49.78	0.00	N
ATOM	342	CA	ASN	A	86	-4.761	5.021	19.937	49.78	0.00	C
ATOM	343	C	ASN	A	86	-5.250	3.566	19.895	49.78	0.00	C
ATOM	344	O	ASN	A	86	-6.399	3.293	19.511	49.78	0.00	O
ATOM	345	N	VAL	A	87	-4.383	2.645	20.322	52.65	0.00	N
ATOM	346	CA	VAL	A	87	-4.703	1.227	20.308	52.65	0.00	C
ATOM	347	C	VAL	A	87	-4.355	0.547	21.630	52.65	0.00	C
ATOM	348	O	VAL	A	87	-3.230	0.067	21.819	52.65	0.00	O
ATOM	349	N	GLY	A	88	-5.321	0.484	22.542	48.80	0.00	N
ATOM	350	CA	GLY	A	88	-5.066	-0.115	23.865	48.80	0.00	C
ATOM	351	C	GLY	A	88	-4.192	0.803	24.708	48.80	0.00	C
ATOM	352	O	GLY	A	88	-3.216	0.373	25.351	48.80	0.00	O
ATOM	353	N	GLY	A	89	-4.538	2.089	24.663	48.31	0.00	N
ATOM	354	CA	GLY	A	89	-3.780	3.124	25.348	48.31	0.00	C
ATOM	355	C	GLY	A	89	-2.339	3.328	24.890	48.31	0.00	C
ATOM	356	O	GLY	A	89	-1.668	4.231	25.406	48.31	0.00	O
ATOM	357	N	LYS	A	90	-1.846	2.502	23.956	50.78	0.00	N
ATOM	358	CA	LYS	A	90	-0.547	2.733	23.318	50.78	0.00	C
ATOM	359	C	LYS	A	90	-0.830	3.651	22.138	50.78	0.00	C
ATOM	360	O	LYS	A	90	-1.881	3.541	21.497	50.78	0.00	O
ATOM	361	N	VAL	A	91	0.069	4.592	21.872	52.58	0.00	N
ATOM	362	CA	VAL	A	91	-0.106	5.503	20.744	52.58	0.00	C
ATOM	363	C	VAL	A	91	0.675	4.963	19.561	52.58	0.00	C
ATOM	364	O	VAL	A	91	1.817	4.523	19.727	52.58	0.00	O
ATOM	365	N	TYR	A	92	0.052	5.005	18.377	65.64	0.00	N
ATOM	366	CA	TYR	A	92	0.676	4.480	17.190	65.64	0.00	C
ATOM	367	C	TYR	A	92	0.645	5.490	16.087	65.64	0.00	C
ATOM	368	O	TYR	A	92	-0.329	6.191	15.893	65.64	0.00	O
ATOM	369	N	LYS	A	93	1.747	5.547	15.371	72.23	0.00	N
ATOM	370	CA	LYS	A	93	1.859	6.412	14.217	72.23	0.00	C
ATOM	371	C	LYS	A	93	1.524	5.603	12.955	72.23	0.00	C
ATOM	372	O	LYS	A	93	2.270	4.714	12.581	72.23	0.00	O
ATOM	373	N	ILE	A	94	0.406	5.927	12.320	56.66	0.00	N
ATOM	374	CA	ILE	A	94	0.084	5.372	11.038	56.66	0.00	C
ATOM	375	C	ILE	A	94	0.743	6.184	9.929	56.66	0.00	C
ATOM	376	O	ILE	A	94	0.556	7.385	9.807	56.66	0.00	O
ATOM	377	N	LYS	A	95	1.497	5.507	9.097	73.79	0.00	N
ATOM	378	CA	LYS	A	95	2.305	6.166	8.106	73.79	0.00	C
ATOM	379	C	LYS	A	95	1.950	5.702	6.699	73.79	0.00	C
ATOM	380	O	LYS	A	95	1.760	4.545	6.470	73.79	0.00	O
ATOM	381	N	GLY	A	96	1.853	6.613	5.743	50.94	0.00	N
ATOM	382	CA	GLY	A	96	1.572	6.242	4.383	50.94	0.00	C
ATOM	383	C	GLY	A	96	2.142	7.179	3.378	50.94	0.00	C
ATOM	384	O	GLY	A	96	2.537	8.280	3.703	50.94	0.00	O
ATOM	385	N	ARG	A	97	2.107	6.740	2.138	36.06	0.00	N
ATOM	386	CA	ARG	A	97	2.693	7.428	1.007	36.06	0.00	C
ATOM	387	C	ARG	A	97	1.769	7.206	-0.178	36.06	0.00	C
ATOM	388	O	ARG	A	97	1.672	6.084	-0.699	36.06	0.00	O
ATOM	389	N	ALA	A	98	1.104	8.281	-0.588	44.10	0.00	N
ATOM	390	CA	ALA	A	98	0.117	8.243	-1.592	44.10	0.00	C
ATOM	391	C	ALA	A	98	0.862	8.383	-2.906	44.10	0.00	C
ATOM	392	O	ALA	A	98	1.855	9.097	-3.010	44.10	0.00	O
ATOM	393	N	ASP	A	99	0.424	7.673	-3.912	48.55	0.00	N
ATOM	394	CA	ASP	A	99	1.076	7.754	-5.196	48.55	0.00	C
ATOM	395	C	ASP	A	99	0.974	9.188	-5.720	48.55	0.00	C
ATOM	396	O	ASP	A	99	1.922	9.707	-6.350	48.55	0.00	O
ATOM	397	N	ALA	A	100	-0.166	9.846	-5.513	55.53	0.00	N
ATOM	398	CA	ALA	A	100	-0.251	11.269	-5.953	55.53	0.00	C
ATOM	399	C	ALA	A	100	-1.290	11.992	-5.184	55.53	0.00	C
ATOM	400	O	ALA	A	100	-2.232	11.366	-4.731	55.53	0.00	O
ATOM	401	N	ILE	A	101	-1.104	13.303	-4.998	45.41	0.00	N
ATOM	402	CA	ILE	A	101	-2.137	14.137	-4.384	45.41	0.00	C
ATOM	403	C	ILE	A	101	-2.390	15.420	-5.140	45.41	0.00	C
ATOM	404	O	ILE	A	101	-1.467	16.143	-5.558	45.41	0.00	O
ATOM	405	N	ILE	A	102	-3.672	15.695	-5.329	45.98	0.00	N
ATOM	406	CA	ILE	A	102	-4.083	17.004	-5.796	45.98	0.00	C
ATOM	407	C	ILE	A	102	-4.628	17.765	-4.581	45.98	0.00	C
ATOM	408	O	ILE	A	102	-5.695	17.431	-4.073	45.98	0.00	O
ATOM	409	N	ARG	A	103	-3.845	18.751	-4.103	0.00	0.00	N
ATOM	410	CA	ARG	A	103	-4.150	19.504	-2.879	0.00	0.00	C
ATOM	411	C	ARG	A	103	-5.423	20.391	-2.949	0.00	0.00	C
ATOM	412	O	ARG	A	103	-6.199	20.482	-1.960	0.00	0.00	O
ATOM	413	N	ASN	A	104	-5.626	21.051	-4.095	49.80	0.00	N
ATOM	414	CA	ASN	A	104	-6.745	21.998	-4.259	49.80	0.00	C
ATOM	415	C	ASN	A	104	-7.230	21.994	-5.679	49.80	0.00	C
ATOM	416	O	ASN	A	104	-6.693	22.692	-6.538	49.80	0.00	O
ATOM	417	N	ASP	A	105	-8.253	21.174	-5.879	49.74	0.00	N
ATOM	418	CA	ASP	A	105	-9.039	21.134	-7.084	49.74	0.00	C
ATOM	419	C	ASP	A	105	-10.471	21.605	-6.714	49.74	0.00	C
ATOM	420	O	ASP	A	105	-11.262	20.843	-6.158	49.74	0.00	O
ATOM	421	N	ASN	A	106	-10.768	22.878	-6.986	45.80	0.00	N
ATOM	422	CA	ASN	A	106	-12.040	23.506	-6.575	45.80	0.00	C
ATOM	423	C	ASN	A	106	-12.422	23.321	-5.104	45.80	0.00	C
ATOM	424	O	ASN	A	106	-13.561	23.020	-4.774	45.80	0.00	O



ATOM	425	N	GLY	A	107	-11.470	23.524	-4.215	40.33	0.00	N
ATOM	426	CA	GLY	A	107	-11.717	23.337	-2.789	40.33	0.00	C
ATOM	427	C	GLY	A	107	-11.737	21.883	-2.335	40.33	0.00	C
ATOM	428	O	GLY	A	107	-12.404	21.544	-1.352	40.33	0.00	O
ATOM	429	N	LYS	A	108	-11.008	21.019	-3.043	28.24	0.00	N
ATOM	430	CA	LYS	A	108	-10.915	19.615	-2.668	28.24	0.00	C
ATOM	431	C	LYS	A	108	-9.483	19.049	-2.884	28.24	0.00	C
ATOM	432	O	LYS	A	108	-8.779	19.403	-3.839	28.24	0.00	O
ATOM	433	N	SER	A	109	-9.039	18.236	-1.933	50.50	0.00	N
ATOM	434	CA	SER	A	109	-7.862	17.387	-2.118	50.50	0.00	C
ATOM	435	C	SER	A	109	-8.308	16.067	-2.739	50.50	0.00	C
ATOM	436	O	SER	A	109	-9.315	15.517	-2.353	50.50	0.00	O
ATOM	437	N	ILE	A	110	-7.524	15.551	-3.650	46.11	0.00	N
ATOM	438	CA	ILE	A	110	-7.790	14.265	-4.209	46.11	0.00	C
ATOM	439	C	ILE	A	110	-6.588	13.343	-3.999	46.11	0.00	C
ATOM	440	O	ILE	A	110	-5.512	13.629	-4.510	46.11	0.00	O
ATOM	441	N	VAL	A	111	-6.752	12.243	-3.266	52.77	0.00	N
ATOM	442	CA	VAL	A	111	-5.679	11.220	-3.198	52.77	0.00	C
ATOM	443	C	VAL	A	111	-5.836	10.276	-4.388	52.77	0.00	C
ATOM	444	O	VAL	A	111	-6.932	9.764	-4.636	52.77	0.00	O
ATOM	445	N	ILE	A	112	-4.775	10.018	-5.128	49.99	0.00	N
ATOM	446	CA	ILE	A	112	-4.866	9.126	-6.282	49.99	0.00	C
ATOM	447	C	ILE	A	112	-4.010	7.894	-6.056	49.99	0.00	C
ATOM	448	O	ILE	A	112	-2.842	8.019	-5.770	49.99	0.00	O
ATOM	449	N	GLU	A	113	-4.547	6.709	-6.243	56.99	0.00	N
ATOM	450	CA	GLU	A	113	-3.780	5.455	-6.060	56.99	0.00	C
ATOM	451	C	GLU	A	113	-3.823	4.710	-7.388	56.99	0.00	C
ATOM	452	O	GLU	A	113	-4.882	4.569	-8.052	56.99	0.00	O
ATOM	453	N	ILE	A	114	-2.657	4.354	-7.861	52.33	0.00	N
ATOM	454	CA	ILE	A	114	-2.531	3.758	-9.150	52.33	0.00	C
ATOM	455	C	ILE	A	114	-2.210	2.295	-8.960	52.33	0.00	C
ATOM	456	O	ILE	A	114	-1.423	1.954	-8.099	52.33	0.00	O
ATOM	457	N	LYS	A	115	-2.787	1.433	-9.786	54.13	0.00	N
ATOM	458	CA	LYS	A	115	-2.621	0.003	-9.616	54.13	0.00	C
ATOM	459	C	LYS	A	115	-2.438	-0.643	-10.947	54.13	0.00	C
ATOM	460	O	LYS	A	115	-2.964	-0.176	-11.951	54.13	0.00	O
ATOM	461	N	THR	A	116	-1.684	-1.729	-10.958	43.55	0.00	N
ATOM	462	CA	THR	A	116	-1.468	-2.466	-12.194	43.55	0.00	C
ATOM	463	C	THR	A	116	-1.602	-3.921	-11.890	43.55	0.00	C
ATOM	464	O	THR	A	116	-1.369	-4.337	-10.804	43.55	0.00	O
ATOM	465	N	SER	A	117	-2.085	-4.706	-12.802	40.11	0.00	N
ATOM	466	CA	SER	A	117	-2.109	-6.154	-12.601	40.11	0.00	C
ATOM	467	C	SER	A	117	-2.180	-6.692	-13.946	40.11	0.00	C
ATOM	468	O	SER	A	117	-2.324	-5.911	-14.909	40.11	0.00	O
ATOM	469	N	ARG	A	118	-2.032	-8.006	-14.033	45.62	0.00	N
ATOM	470	CA	ARG	A	118	-2.068	-8.640	-15.363	45.62	0.00	C
ATOM	471	C	ARG	A	118	-3.471	-8.928	-15.862	45.62	0.00	C
ATOM	472	O	ARG	A	118	-3.648	-9.162	-17.069	45.62	0.00	O
ATOM	473	N	SER	A	119	-4.457	-8.893	-14.965	45.19	0.00	N
ATOM	474	CA	SER	A	119	-5.872	-9.062	-15.362	45.19	0.00	C
ATOM	475	C	SER	A	119	-6.800	-7.967	-14.770	45.19	0.00	C
ATOM	476	O	SER	A	119	-6.533	-7.439	-13.690	45.19	0.00	O
ATOM	477	N	ASP	A	120	-7.938	-7.766	-15.424	53.65	0.00	N
ATOM	478	CA	ASP	A	120	-8.922	-6.789	-15.023	53.65	0.00	C
ATOM	479	C	ASP	A	120	-10.062	-7.464	-14.339	53.65	0.00	C
ATOM	480	O	ASP	A	120	-11.180	-6.930	-14.286	53.65	0.00	O
ATOM	481	N	LYS	A	121	-9.805	-8.622	-13.800	42.30	0.00	N
ATOM	482	CA	LYS	A	121	-10.861	-9.343	-13.147	42.30	0.00	C
ATOM	483	C	LYS	A	121	-11.305	-8.719	-11.850	42.30	0.00	C
ATOM	484	O	LYS	A	121	-10.493	-8.415	-10.994	42.30	0.00	O
ATOM	485	N	GLY	A	122	-12.595	-8.552	-11.661	49.97	0.00	N
ATOM	486	CA	GLY	A	122	-13.099	-8.150	-10.341	49.97	0.00	C
ATOM	487	C	GLY	A	122	-12.816	-6.695	-9.897	49.97	0.00	C
ATOM	488	O	GLY	A	122	-13.062	-6.363	-8.702	49.97	0.00	O
ATOM	489	N	LEU	A	123	-12.369	-5.819	-10.826	66.42	0.00	N
ATOM	490	CA	LEU	A	123	-12.047	-4.418	-10.440	66.42	0.00	C
ATOM	491	C	LEU	A	123	-13.261	-3.672	-9.972	66.42	0.00	C
ATOM	492	O	LEU	A	123	-14.252	-3.694	-10.654	66.42	0.00	O
ATOM	493	N	PRO	A	124	-13.153	-2.951	-8.838	52.81	0.00	N
ATOM	494	CA	PRO	A	124	-11.936	-2.786	-8.048	52.81	0.00	C
ATOM	495	C	PRO	A	124	-11.854	-3.776	-6.934	52.81	0.00	C
ATOM	496	O	PRO	A	124	-12.861	-4.122	-6.314	52.81	0.00	O
ATOM	497	N	LEU	A	125	-10.645	-4.184	-6.634	37.58	0.00	N
ATOM	498	CA	LEU	A	125	-10.394	-5.171	-5.542	37.58	0.00	C
ATOM	499	C	LEU	A	125	-10.497	-4.530	-4.149	37.58	0.00	C
ATOM	500	O	LEU	A	125	-10.112	-3.350	-3.908	37.58	0.00	O
ATOM	501	N	ILE	A	126	-11.048	-5.276	-3.221	55.60	0.00	N
ATOM	502	CA	ILE	A	126	-11.528	-4.647	-1.996	55.60	0.00	C
ATOM	503	C	ILE	A	126	-10.339	-4.126	-1.167	55.60	0.00	C
ATOM	504	O	ILE	A	126	-10.462	-3.123	-0.513	55.60	0.00	O
ATOM	505	N	HIS	A	127	-9.195	-4.779	-1.251	54.70	0.00	N
ATOM	506	CA	HIS	A	127	-8.055	-4.383	-0.479	54.70	0.00	C
ATOM	507	C	HIS	A	127	-7.440	-3.163	-1.103	54.70	0.00	C
ATOM	508	O	HIS	A	127	-6.834	-2.382	-0.415	54.70	0.00	O
ATOM	509	N	HIS	A	128	-7.592	-2.980	-2.400	42.39	0.00	N
ATOM	510	CA	HIS	A	128	-7.176	-1.718	-3.018	42.39	0.00	C
ATOM	511	C	HIS	A	128	-8.083	-0.558	-2.609	42.39	0.00	C
ATOM	512	O	HIS	A	128	-7.606	0.554	-2.368	42.39	0.00	O
ATOM	513	N	LYS	A	129	-9.365	-0.803	-2.526	38.83	0.00	N
ATOM	514	CA	LYS	A	129	-10.266	0.264	-2.198	38.83	0.00	C
ATOM	515	C	LYS	A	129	-10.028	0.593	-0.745	38.83	0.00	C
ATOM	516	O	LYS	A	129	-9.930	1.747	-0.408	38.83	0.00	O

ATOM	517	N	MSE	A	130	-9.911	-0.410	0.128	53.12	0.00	N
ATOM	518	CA	MSE	A	130	-9.661	-0.122	1.564	53.12	0.00	C
ATOM	519	C	MSE	A	130	-8.432	0.772	1.739	53.12	0.00	C
ATOM	520	O	MSE	A	130	-8.445	1.649	2.550	53.12	0.00	O
ATOM	521	N	GLN	A	131	-7.394	0.520	0.958	55.83	0.00	N
ATOM	522	CA	GLN	A	131	-6.133	1.211	1.097	55.83	0.00	C
ATOM	523	C	GLN	A	131	-6.400	2.668	0.780	55.83	0.00	C
ATOM	524	O	GLN	A	131	-5.918	3.542	1.460	55.83	0.00	O
ATOM	525	N	LEU	A	132	-7.195	2.936	-0.242	51.50	0.00	N
ATOM	526	CA	LEU	A	132	-7.436	4.290	-0.682	51.50	0.00	C
ATOM	527	C	LEU	A	132	-8.295	4.984	0.347	51.50	0.00	C
ATOM	528	O	LEU	A	132	-8.142	6.173	0.629	51.50	0.00	O
ATOM	529	N	GLN	A	133	-9.173	4.244	0.963	48.48	0.00	N
ATOM	530	CA	GLN	A	133	-10.034	4.835	1.951	48.48	0.00	C
ATOM	531	C	GLN	A	133	-9.306	5.181	3.263	48.48	0.00	C
ATOM	532	O	GLN	A	133	-9.739	6.050	4.021	48.48	0.00	O
ATOM	533	N	ILE	A	134	-8.240	4.450	3.561	74.19	0.00	N
ATOM	534	CA	ILE	A	134	-7.448	4.750	4.709	74.19	0.00	C
ATOM	535	C	ILE	A	134	-6.635	6.008	4.375	74.19	0.00	C
ATOM	536	O	ILE	A	134	-6.604	6.904	5.182	74.19	0.00	O
ATOM	537	N	TYR	A	135	-5.993	6.089	3.200	50.36	0.00	N
ATOM	538	CA	TYR	A	135	-5.308	7.299	2.832	50.36	0.00	C
ATOM	539	C	TYR	A	135	-6.263	8.486	3.003	50.36	0.00	C
ATOM	540	O	TYR	A	135	-5.876	9.536	3.592	50.36	0.00	O
ATOM	541	N	LEU	A	136	-7.510	8.345	2.563	55.33	0.00	N
ATOM	542	CA	LEU	A	136	-8.431	9.472	2.663	55.33	0.00	C
ATOM	543	C	LEU	A	136	-8.471	9.988	4.123	55.33	0.00	C
ATOM	544	O	LEU	A	136	-8.423	11.193	4.364	55.33	0.00	O
ATOM	545	N	TRP	A	137	-8.562	9.085	5.079	58.33	0.00	N
ATOM	546	CA	TRP	A	137	-8.471	9.465	6.480	58.33	0.00	C
ATOM	547	C	TRP	A	137	-7.090	10.092	6.781	58.33	0.00	C
ATOM	548	O	TRP	A	137	-6.988	11.182	7.363	58.33	0.00	O
ATOM	549	N	LEU	A	138	-6.039	9.457	6.283	32.14	0.00	N
ATOM	550	CA	LEU	A	138	-4.665	9.881	6.616	32.14	0.00	C
ATOM	551	C	LEU	A	138	-4.353	11.332	6.246	32.14	0.00	C
ATOM	552	O	LEU	A	138	-3.806	12.080	7.039	32.14	0.00	O
ATOM	553	N	PHE	A	139	-4.725	11.691	5.030	45.69	0.00	N
ATOM	554	CA	PHE	A	139	-4.602	13.020	4.511	45.69	0.00	C
ATOM	555	C	PHE	A	139	-5.790	13.890	4.834	45.69	0.00	C
ATOM	556	O	PHE	A	139	-5.772	15.074	4.508	45.69	0.00	O
ATOM	557	N	SER	A	140	-6.827	13.321	5.474	48.76	0.00	N
ATOM	558	CA	SER	A	140	-8.140	13.999	5.608	48.76	0.00	C
ATOM	559	C	SER	A	140	-8.590	14.636	4.304	48.76	0.00	C
ATOM	560	O	SER	A	140	-8.961	15.800	4.273	48.76	0.00	O
ATOM	561	N	ALA	A	141	-8.519	13.878	3.227	46.70	0.00	N
ATOM	562	CA	ALA	A	141	-8.945	14.332	1.917	46.70	0.00	C
ATOM	563	C	ALA	A	141	-10.405	13.939	1.667	46.70	0.00	C
ATOM	564	O	ALA	A	141	-10.983	13.084	2.348	46.70	0.00	O
ATOM	565	N	GLU	A	142	-11.035	14.621	0.722	24.72	0.00	N
ATOM	566	CA	GLU	A	142	-12.471	14.427	0.489	24.72	0.00	C
ATOM	567	C	GLU	A	142	-12.738	13.477	-0.702	24.72	0.00	C
ATOM	568	O	GLU	A	142	-13.747	12.791	-0.707	24.72	0.00	O
ATOM	569	N	LYS	A	143	-11.805	13.444	-1.660	36.43	0.00	N
ATOM	570	CA	LYS	A	143	-11.916	12.652	-2.862	36.43	0.00	C
ATOM	571	C	LYS	A	143	-10.727	11.686	-3.055	36.43	0.00	C
ATOM	572	O	LYS	A	143	-9.539	11.991	-2.732	36.43	0.00	O
ATOM	573	N	GLY	A	144	-11.077	10.526	-3.602	50.78	0.00	N
ATOM	574	CA	GLY	A	144	-10.120	9.474	-3.925	50.78	0.00	C
ATOM	575	C	GLY	A	144	-10.352	8.924	-5.300	50.78	0.00	C
ATOM	576	O	GLY	A	144	-11.486	8.740	-5.697	50.78	0.00	O
ATOM	577	N	ILE	A	145	-9.286	8.679	-6.041	48.61	0.00	N
ATOM	578	CA	ILE	A	145	-9.380	8.016	-7.325	48.61	0.00	C
ATOM	579	C	ILE	A	145	-8.437	6.791	-7.270	48.61	0.00	C
ATOM	580	O	ILE	A	145	-7.274	6.920	-6.924	48.61	0.00	O
ATOM	581	N	LEU	A	146	-8.955	5.621	-7.649	52.71	0.00	N
ATOM	582	CA	LEU	A	146	-8.233	4.396	-7.797	52.71	0.00	C
ATOM	583	C	LEU	A	146	-8.251	4.098	-9.279	52.71	0.00	C
ATOM	584	O	LEU	A	146	-9.304	3.843	-9.816	52.71	0.00	O
ATOM	585	N	VAL	A	147	-7.117	4.065	-9.937	58.59	0.00	N
ATOM	586	CA	VAL	A	147	-7.059	3.872	-11.356	58.59	0.00	C
ATOM	587	C	VAL	A	147	-6.211	2.623	-11.646	58.59	0.00	C
ATOM	588	O	VAL	A	147	-5.067	2.470	-11.090	58.59	0.00	O
ATOM	589	N	TYR	A	148	-6.742	1.739	-12.509	50.20	0.00	N
ATOM	590	CA	TYR	A	148	-6.090	0.482	-12.844	50.20	0.00	C
ATOM	591	C	TYR	A	148	-5.595	0.575	-14.257	50.20	0.00	C
ATOM	592	O	TYR	A	148	-6.345	0.903	-15.117	50.20	0.00	O
ATOM	593	N	ILE	A	149	-4.338	0.293	-14.483	59.40	0.00	N
ATOM	594	CA	ILE	A	149	-3.766	0.206	-15.807	59.40	0.00	C
ATOM	595	C	ILE	A	149	-3.430	-1.275	-15.990	59.40	0.00	C
ATOM	596	O	ILE	A	149	-2.545	-1.776	-15.346	59.40	0.00	O
ATOM	597	N	THR	A	150	-4.180	-2.003	-16.800	50.91	0.00	N
ATOM	598	CA	THR	A	150	-3.964	-3.413	-16.968	50.91	0.00	C
ATOM	599	C	THR	A	150	-3.936	-3.690	-18.433	50.91	0.00	C
ATOM	600	O	THR	A	150	-4.311	-2.846	-19.222	50.91	0.00	O
ATOM	601	N	PRO	A	151	-3.486	-4.859	-18.836	38.79	0.00	N
ATOM	602	CA	PRO	A	151	-3.299	-5.051	-20.300	38.79	0.00	C
ATOM	603	C	PRO	A	151	-4.601	-5.273	-21.077	38.79	0.00	C
ATOM	604	O	PRO	A	151	-4.598	-5.259	-22.317	38.79	0.00	O
ATOM	605	N	ASP	A	152	-5.658	-5.505	-20.333	46.49	0.00	N
ATOM	606	CA	ASP	A	152	-6.988	-5.753	-20.794	46.49	0.00	C
ATOM	607	C	ASP	A	152	-7.910	-4.564	-20.707	46.49	0.00	C
ATOM	608	O	ASP	A	152	-8.921	-4.561	-21.326	46.49	0.00	O

ATOM	609	N	ARG	A	153	-7.550	-3.582	-19.909	48.05	0.00	N
ATOM	610	CA	ARG	A	153	-8.418	-2.528	-19.517	48.05	0.00	C
ATOM	611	C	ARG	A	153	-7.808	-1.437	-18.658	48.05	0.00	C
ATOM	612	O	ARG	A	153	-7.169	-1.665	-17.715	48.05	0.00	O
ATOM	613	N	ILE	A	154	-8.107	-0.221	-18.973	44.50	0.00	N
ATOM	614	CA	ILE	A	154	-7.873	0.874	-18.098	44.50	0.00	C
ATOM	615	C	ILE	A	154	-9.177	1.197	-17.432	44.50	0.00	C
ATOM	616	O	ILE	A	154	-10.135	1.182	-18.066	44.50	0.00	O
ATOM	617	N	ALA	A	155	-9.204	1.463	-16.150	44.74	0.00	N
ATOM	618	CA	ALA	A	155	-10.490	1.563	-15.403	44.74	0.00	C
ATOM	619	C	ALA	A	155	-10.307	2.411	-14.178	44.74	0.00	C
ATOM	620	O	ALA	A	155	-9.405	2.165	-13.464	44.74	0.00	O
ATOM	621	N	GLU	A	156	-11.159	3.389	-13.945	44.85	0.00	N
ATOM	622	CA	GLU	A	156	-10.959	4.392	-12.924	44.85	0.00	C
ATOM	623	C	GLU	A	156	-12.193	4.455	-12.023	44.85	0.00	C
ATOM	624	O	GLU	A	156	-13.299	4.455	-12.446	44.85	0.00	O
ATOM	625	N	TYR	A	157	-11.976	4.532	-10.746	45.56	0.00	N
ATOM	626	CA	TYR	A	157	-13.044	4.493	-9.764	45.56	0.00	C
ATOM	627	C	TYR	A	157	-12.934	5.658	-8.804	45.56	0.00	C
ATOM	628	O	TYR	A	157	-11.853	6.011	-8.265	45.56	0.00	O
ATOM	629	N	GLU	A	158	-14.055	6.253	-8.542	42.77	0.00	N
ATOM	630	CA	GLU	A	158	-14.108	7.361	-7.646	42.77	0.00	C
ATOM	631	C	GLU	A	158	-14.532	6.786	-6.302	42.77	0.00	C
ATOM	632	O	GLU	A	158	-15.602	6.184	-6.178	42.77	0.00	O
ATOM	633	N	ILE	A	159	-13.651	6.902	-5.311	48.46	0.00	N
ATOM	634	CA	ILE	A	159	-13.878	6.419	-3.939	48.46	0.00	C
ATOM	635	C	ILE	A	159	-13.755	7.649	-3.027	48.46	0.00	C
ATOM	636	O	ILE	A	159	-12.671	8.212	-2.918	48.46	0.00	O
ATOM	637	N	ASN	A	160	-14.849	8.038	-2.394	42.29	0.00	N
ATOM	638	CA	ASN	A	160	-14.894	9.274	-1.638	42.29	0.00	C
ATOM	639	C	ASN	A	160	-15.165	9.116	-0.146	42.29	0.00	C
ATOM	640	O	ASN	A	160	-14.949	10.056	0.594	42.29	0.00	O
ATOM	641	N	GLU	A	161	-15.536	7.926	0.306	29.62	0.00	N
ATOM	642	CA	GLU	A	161	-15.720	7.704	1.724	29.62	0.00	C
ATOM	643	C	GLU	A	161	-14.467	7.151	2.407	29.62	0.00	C
ATOM	644	O	GLU	A	161	-13.997	6.052	2.116	29.62	0.00	O
ATOM	645	N	PRO	A	162	-13.950	7.900	3.365	47.60	0.00	N
ATOM	646	CA	PRO	A	162	-12.848	7.426	4.187	47.60	0.00	C
ATOM	647	C	PRO	A	162	-13.323	6.439	5.227	47.60	0.00	C
ATOM	648	O	PRO	A	162	-14.483	6.537	5.645	47.60	0.00	O
ATOM	649	N	LEU	A	163	-12.444	5.517	5.661	43.37	0.00	N
ATOM	650	CA	LEU	A	163	-12.805	4.572	6.724	43.37	0.00	C
ATOM	651	C	LEU	A	163	-12.888	5.346	8.019	43.37	0.00	C
ATOM	652	O	LEU	A	163	-12.040	6.223	8.266	43.37	0.00	O
ATOM	653	N	ASP	A	164	-13.876	5.013	8.858	15.75	0.00	N
ATOM	654	CA	ASP	A	164	-13.934	5.590	10.207	15.75	0.00	C
ATOM	655	C	ASP	A	164	-12.616	5.280	10.928	15.75	0.00	C
ATOM	656	O	ASP	A	164	-11.940	4.300	10.622	15.75	0.00	O
ATOM	657	N	GLU	A	165	-12.301	6.090	11.926	44.28	0.00	N
ATOM	658	CA	GLU	A	165	-11.127	5.880	12.758	44.28	0.00	C
ATOM	659	C	GLU	A	165	-11.240	4.594	13.565	44.28	0.00	C
ATOM	660	O	GLU	A	165	-10.265	3.923	13.761	44.28	0.00	O
ATOM	661	N	ALA	A	166	-12.438	4.252	14.016	56.50	0.00	N
ATOM	662	CA	ALA	A	166	-12.662	3.006	14.753	56.50	0.00	C
ATOM	663	C	ALA	A	166	-12.336	1.750	13.921	56.50	0.00	C
ATOM	664	O	ALA	A	166	-11.761	0.808	14.415	56.50	0.00	O
ATOM	665	N	THR	A	167	-12.694	1.751	12.648	42.80	0.00	N
ATOM	666	CA	THR	A	167	-12.382	0.638	11.768	42.80	0.00	C
ATOM	667	C	THR	A	167	-10.872	0.497	11.623	42.80	0.00	C
ATOM	668	O	THR	A	167	-10.346	-0.601	11.637	42.80	0.00	O
ATOM	669	N	ILE	A	168	-10.171	1.619	11.528	43.48	0.00	N
ATOM	670	CA	ILE	A	168	-8.732	1.633	11.358	43.48	0.00	C
ATOM	671	C	ILE	A	168	-8.078	1.128	12.626	43.48	0.00	C
ATOM	672	O	ILE	A	168	-7.058	0.457	12.570	43.48	0.00	O
ATOM	673	N	VAL	A	169	-8.665	1.441	13.778	59.04	0.00	N
ATOM	674	CA	VAL	A	169	-8.132	0.957	15.026	59.04	0.00	C
ATOM	675	C	VAL	A	169	-8.314	-0.550	15.039	59.04	0.00	C
ATOM	676	O	VAL	A	169	-7.394	-1.257	15.440	59.04	0.00	O
ATOM	677	N	ARG	A	170	-9.472	-1.045	14.590	42.54	0.00	N
ATOM	678	CA	ARG	A	170	-9.700	-2.518	14.528	42.54	0.00	C
ATOM	679	C	ARG	A	170	-8.661	-3.202	13.604	42.54	0.00	C
ATOM	680	O	ARG	A	170	-8.069	-4.207	13.996	42.54	0.00	O
ATOM	681	N	LEU	A	171	-8.396	-2.610	12.430	50.99	0.00	N
ATOM	682	CA	LEU	A	171	-7.379	-3.127	11.527	50.99	0.00	C
ATOM	683	C	LEU	A	171	-6.020	-3.139	12.210	50.99	0.00	C
ATOM	684	O	LEU	A	171	-5.257	-4.108	12.109	50.99	0.00	O
ATOM	685	N	ALA	A	172	-5.723	-2.049	12.909	48.07	0.00	N
ATOM	686	CA	ALA	A	172	-4.457	-1.898	13.604	48.07	0.00	C
ATOM	687	C	ALA	A	172	-4.301	-2.947	14.696	48.07	0.00	C
ATOM	688	O	ALA	A	172	-3.240	-3.541	14.801	48.07	0.00	O
ATOM	689	N	GLU	A	173	-5.352	-3.187	15.479	69.67	0.00	N
ATOM	690	CA	GLU	A	173	-5.292	-4.177	16.568	69.67	0.00	C
ATOM	691	C	GLU	A	173	-4.915	-5.559	16.053	69.67	0.00	C
ATOM	692	O	GLU	A	173	-4.131	-6.255	16.707	69.67	0.00	O
ATOM	693	N	ASP	A	174	-5.506	-5.961	14.919	40.91	0.00	N
ATOM	694	CA	ASP	A	174	-5.208	-7.255	14.320	40.91	0.00	C
ATOM	695	C	ASP	A	174	-3.815	-7.301	13.840	40.91	0.00	C
ATOM	696	O	ASP	A	174	-3.169	-8.343	13.873	40.91	0.00	O
ATOM	697	N	THR	A	175	-3.325	-6.165	13.384	47.42	0.00	N
ATOM	698	CA	THR	A	175	-1.966	-6.171	12.887	47.42	0.00	C
ATOM	699	C	THR	A	175	-1.026	-6.460	14.019	47.42	0.00	C
ATOM	700	O	THR	A	175	-0.104	-7.267	13.894	47.42	0.00	O

ATOM	701	N	ILE	A	176	-1.312	-5.827	15.139	32.81	0.00	N
ATOM	702	CA	ILE	A	176	-0.456	-5.907	16.306	32.81	0.00	C
ATOM	703	C	ILE	A	176	-0.618	-7.264	17.013	32.81	0.00	C
ATOM	704	O	ILE	A	176	0.348	-7.982	17.191	32.81	0.00	O
ATOM	705	N	MSE	A	177	-1.846	-7.622	17.359	38.99	0.00	N
ATOM	706	CA	MSE	A	177	-2.110	-8.862	18.066	38.99	0.00	C
ATOM	707	C	MSE	A	177	-2.036	-10.148	17.184	38.99	0.00	C
ATOM	708	O	MSE	A	177	-2.230	-11.232	17.705	38.99	0.00	O
ATOM	709	N	LEU	A	178	-1.747	-10.045	15.885	39.02	0.00	N
ATOM	710	CA	LEU	A	178	-1.765	-11.195	14.931	39.02	0.00	C
ATOM	711	C	LEU	A	178	-3.082	-11.987	14.963	39.02	0.00	C
ATOM	712	O	LEU	A	178	-3.059	-13.216	14.908	39.02	0.00	O
ATOM	713	N	GLN	A	179	-4.195	-11.295	14.914	51.25	0.00	N
ATOM	714	CA	GLN	A	179	-5.488	-11.880	15.107	51.25	0.00	C
ATOM	715	C	GLN	A	179	-6.016	-12.818	14.022	51.25	0.00	C
ATOM	716	O	GLN	A	179	-6.283	-13.971	14.291	51.25	0.00	O
ATOM	717	N	ASN	A	180	-6.209	-12.312	12.822	45.90	0.00	N
ATOM	718	CA	ASN	A	180	-6.832	-13.100	11.723	45.90	0.00	C
ATOM	719	C	ASN	A	180	-5.958	-13.170	10.495	45.90	0.00	C
ATOM	720	O	ASN	A	180	-5.982	-12.302	9.632	45.90	0.00	O
ATOM	721	N	SER	A	181	-5.162	-14.213	10.431	62.18	0.00	N
ATOM	722	CA	SER	A	181	-4.294	-14.421	9.316	62.18	0.00	C
ATOM	723	C	SER	A	181	-4.685	-15.651	8.495	62.18	0.00	C
ATOM	724	O	SER	A	181	-4.793	-16.745	9.008	62.18	0.00	O
ATOM	725	N	PRO	A	182	-4.770	-15.497	7.199	60.53	0.00	N
ATOM	726	CA	PRO	A	182	-4.417	-14.305	6.461	60.53	0.00	C
ATOM	727	C	PRO	A	182	-5.557	-13.337	6.500	60.53	0.00	C
ATOM	728	O	PRO	A	182	-6.623	-13.675	7.004	60.53	0.00	O
ATOM	729	N	ARG	A	183	-5.357	-12.135	5.998	84.37	0.00	N
ATOM	730	CA	ARG	A	183	-6.436	-11.191	6.007	84.37	0.00	C
ATOM	731	C	ARG	A	183	-7.372	-11.579	4.893	84.37	0.00	C
ATOM	732	O	ARG	A	183	-8.603	-11.628	5.107	84.37	0.00	O
ATOM	733	N	PHE	A	184	-6.785	-11.851	3.718	52.25	0.00	N
ATOM	734	CA	PHE	A	184	-7.550	-12.410	2.590	52.25	0.00	C
ATOM	735	C	PHE	A	184	-7.017	-13.778	2.185	52.25	0.00	C
ATOM	736	O	PHE	A	184	-5.814	-14.039	2.233	52.25	0.00	O
ATOM	737	N	ASN	A	185	-7.926	-14.630	1.714	63.62	0.00	N
ATOM	738	CA	ASN	A	185	-7.604	-16.007	1.378	63.62	0.00	C
ATOM	739	C	ASN	A	185	-6.563	-16.229	0.291	63.62	0.00	C
ATOM	740	O	ASN	A	185	-5.857	-17.232	0.316	63.62	0.00	O
ATOM	741	N	TRP	A	186	-6.507	-15.349	-0.690	44.36	0.00	N
ATOM	742	CA	TRP	A	186	-5.602	-15.511	-1.821	44.36	0.00	C
ATOM	743	C	TRP	A	186	-4.124	-15.190	-1.442	44.36	0.00	C
ATOM	744	O	TRP	A	186	-3.168	-15.441	-2.207	44.36	0.00	O
ATOM	745	N	GLU	A	187	-3.932	-14.615	-0.259	82.86	0.00	N
ATOM	746	CA	GLU	A	187	-2.575	-14.179	0.176	82.86	0.00	C
ATOM	747	C	GLU	A	187	-1.511	-15.229	0.225	82.86	0.00	C
ATOM	748	O	GLU	A	187	-0.428	-15.028	-0.334	82.86	0.00	O
ATOM	749	N	CYS	A	188	-1.801	-16.352	0.884	55.08	0.00	N
ATOM	750	CA	CYS	A	188	-0.760	-17.344	1.180	55.08	0.00	C
ATOM	751	C	CYS	A	188	-0.146	-17.865	-0.127	55.08	0.00	C
ATOM	752	O	CYS	A	188	1.067	-18.120	-0.218	55.08	0.00	O
ATOM	753	N	LYS	A	189	-0.970	-17.963	-1.166	38.40	0.00	N
ATOM	754	CA	LYS	A	189	-0.511	-18.522	-2.447	38.40	0.00	C
ATOM	755	C	LYS	A	189	0.696	-17.731	-3.018	38.40	0.00	C
ATOM	756	O	LYS	A	189	1.569	-18.272	-3.724	38.40	0.00	O
ATOM	757	N	TYR	A	190	0.747	-16.439	-2.708	25.73	0.00	N
ATOM	758	CA	TYR	A	190	1.763	-15.611	-3.285	25.73	0.00	C
ATOM	759	C	TYR	A	190	2.819	-15.235	-2.248	25.73	0.00	C
ATOM	760	O	TYR	A	190	3.823	-14.654	-2.584	25.73	0.00	O
ATOM	761	N	CYS	A	191	2.587	-15.625	-0.997	41.49	0.00	N
ATOM	762	CA	CYS	A	191	3.353	-15.193	0.160	41.49	0.00	C
ATOM	763	C	CYS	A	191	4.692	-15.934	0.269	41.49	0.00	C
ATOM	764	O	CYS	A	191	4.732	-17.173	0.348	41.49	0.00	O
ATOM	765	N	ILE	A	192	5.784	-15.171	0.315	38.99	0.00	N
ATOM	766	CA	ILE	A	192	7.106	-15.776	0.279	38.99	0.00	C
ATOM	767	C	ILE	A	192	7.409	-16.403	1.615	38.99	0.00	C
ATOM	768	O	ILE	A	192	8.394	-17.068	1.711	38.99	0.00	O
ATOM	769	N	PHE	A	193	6.578	-16.191	2.632	38.05	0.00	N
ATOM	770	CA	PHE	A	193	6.786	-16.794	3.943	38.05	0.00	C
ATOM	771	C	PHE	A	193	5.984	-18.074	4.210	38.05	0.00	C
ATOM	772	O	PHE	A	193	5.990	-18.637	5.317	38.05	0.00	O
ATOM	773	N	SER	A	194	5.262	-18.513	3.198	44.71	0.00	N
ATOM	774	CA	SER	A	194	4.413	-19.711	3.328	44.71	0.00	C
ATOM	775	C	SER	A	194	5.249	-20.909	3.657	44.71	0.00	C
ATOM	776	O	SER	A	194	4.748	-21.746	4.298	44.71	0.00	O
ATOM	777	N	VAL	A	195	6.503	-20.952	3.199	51.78	0.00	N
ATOM	778	CA	VAL	A	195	7.410	-21.989	3.516	51.78	0.00	C
ATOM	779	C	VAL	A	195	7.733	-22.174	4.979	51.78	0.00	C
ATOM	780	O	VAL	A	195	8.309	-23.201	5.323	51.78	0.00	O
ATOM	781	N	ILE	A	196	7.419	-21.212	5.849	33.86	0.00	N
ATOM	782	CA	ILE	A	196	7.718	-21.354	7.295	33.86	0.00	C
ATOM	783	C	ILE	A	196	6.564	-20.975	8.148	33.86	0.00	C
ATOM	784	O	ILE	A	196	6.683	-20.972	9.331	33.86	0.00	O
ATOM	785	N	CYS	A	197	5.424	-20.671	7.561	51.61	0.00	N
ATOM	786	CA	CYS	A	197	4.335	-20.157	8.329	51.61	0.00	C
ATOM	787	C	CYS	A	197	3.331	-21.219	8.615	51.61	0.00	C
ATOM	788	O	CYS	A	197	2.836	-21.849	7.697	51.61	0.00	O
ATOM	789	N	PRO	A	198	2.960	-21.375	9.870	31.41	0.00	N
ATOM	790	CA	PRO	A	198	1.970	-22.338	10.280	31.41	0.00	C
ATOM	791	C	PRO	A	198	0.542	-22.046	9.971	31.41	0.00	C
ATOM	792	O	PRO	A	198	-0.290	-22.938	10.156	31.41	0.00	O

ATOM	793	N	ALA	A	199	0.227	-20.829	9.562	44.28	0.00	N
ATOM	794	CA	ALA	A	199	-1.167	-20.431	9.353	44.28	0.00	C
ATOM	795	C	ALA	A	199	-1.570	-20.467	7.877	44.28	0.00	C
ATOM	796	O	ALA	A	199	-2.731	-20.267	7.563	44.28	0.00	O
ATOM	797	N	LYS	A	200	-0.591	-20.655	6.991	51.19	0.00	N
ATOM	798	CA	LYS	A	200	-0.778	-20.823	5.548	51.19	0.00	C
ATOM	799	C	LYS	A	200	-1.946	-21.672	5.236	51.19	0.00	C
ATOM	800	O	LYS	A	200	-2.051	-22.735	5.769	51.19	0.00	O
ATOM	801	N	LEU	A	201	-2.799	-21.218	4.328	36.97	0.00	N
ATOM	802	CA	LEU	A	201	-3.935	-22.003	3.876	36.97	0.00	C
ATOM	803	C	LEU	A	201	-3.511	-23.046	2.859	36.97	0.00	C
ATOM	804	O	LEU	A	201	-2.649	-22.775	2.009	36.97	0.00	O
ATOM	805	N	THR	A	202	-4.127	-24.225	2.953	47.06	0.00	N
ATOM	806	CA	THR	A	202	-3.796	-25.369	2.082	47.06	0.00	C
ATOM	807	C	THR	A	202	-5.038	-25.920	1.370	47.06	0.00	C
ATOM	808	O	THR	A	202	-6.101	-25.964	1.999	47.06	0.00	O
TER	809		THR	A	202						
ENDMDL											
END											