

Protein View: CAI84642.1

alpha-amylase inhibitor 0.19, partial [Triticum aestivum]

Database: NCBIprot
Score: 96
Expect: 0.0014
Monoisotopic mass (M_r): 13340
Calculated pI: 6.86
Taxonomy: [Triticum aestivum](#)

Sequence similarity is available as [an NCBI BLAST search of CAI84642.1 against nr](#).

Search parameters

Enzyme: Trypsin: cuts C-term side of KR unless next residue is P.
Fixed modifications: [Carbamidomethyl \(C\)](#)
Variable modifications: [Oxidation \(M\)](#)
Mass values searched: 16
Mass values matched: 6

Protein sequence coverage: 55%

Matched peptides shown in ***bold red***.

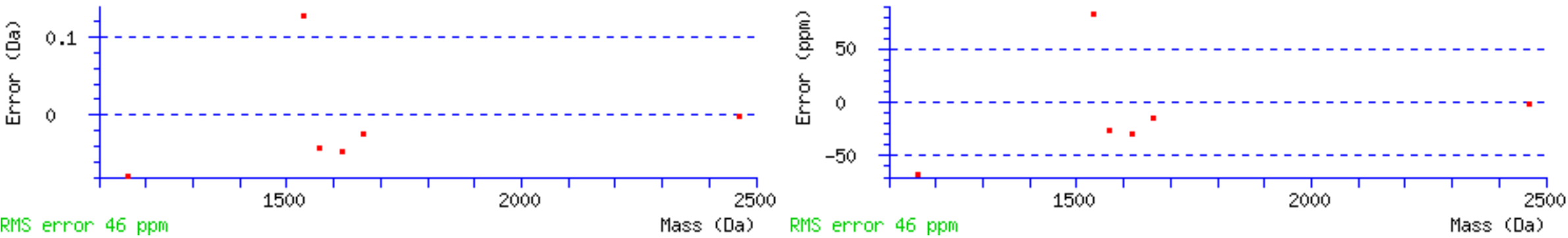
1 CYPGQAFQVP ALPACRPLL**R LQCNGSQVPE AVLR**DCCQQL AHISEWCRCG
51 **ALYSMLDSMY KEHGAQEGQA** GTGAFFRCRR **EVVKLTAASI TAVCRLPIVV**
101 **DASGDGAYVC KDVAAYPDA**

Unformatted sequence string: [119 residues](#) (for pasting into other applications).

Sort by ☒ residue number ☐ increasing mass ☐ decreasing mass
Show ☒ matched peptides only ☐ predicted peptides also

Start – End	Observed	Mr (expt)	Mr (calc)	Delta M	Peptide
21 – 34	1570.7589	1569.7516	1569.7933	-0.0417 0	R.LQCNGSQVPEAVLR.D
49 – 61	1538.7955	1537.7883	1537.6615	0.1268 0	R.CGALYSMLDSMYK.E
81 – 95	1617.8523	1616.8451	1616.8920	-0.0469 1	R.EVVKLTAASITAVCR.L
85 – 95	1162.5466	1161.5393	1161.6176	-0.0783 0	K.LTAASITAVCR.L
96 – 111	1663.8108	1662.8035	1662.8287	-0.0252 0	R.LPIVVDASGDGAYVCK.D
96 – 119	2466.1834	2465.1761	2465.1785	-0.0024 1	R.LPIVVDASGDGAYVCKDVAAYPDA.-

No match to: 1318.6418, 1372.6236, 1698.8804, 1727.8098, 1766.7635, 1905.9499, 2055.9716, 2211.1040, 2345.1543, 2753.4137



LOCUS	CAI84642	119 aa	linear	PLN 26-JUL-2016
DEFINITION	alpha-amylase inhibitor 0.19, partial [Triticum aestivum].			
ACCESSION	CAI84642			
VERSION	CAI84642.1			
DBSOURCE	embl accession AJ966333.1			
KEYWORDS	.			
SOURCE	Triticum aestivum (bread wheat)			
ORGANISM	Triticum aestivum			
	Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; BOP clade; Pooideae; Triticodae; Triticeae; Triticinae; Triticum.			
REFERENCE	1			
AUTHORS	Weichel,M., Vergoossen,N., Bonomi,S., Ballmer-Weber,B., Pastorello,E.A. and Crameri,R.			
TITLE	Cloning cDNA repertoires of IgE-binding proteins of wheat and corn screened with sera from food allergic patients that had undergone DBPCFC			
JOURNAL	Unpublished			
REFERENCE	2 (residues 1 to 119)			
AUTHORS	Weichel,M.			
TITLE	Direct Submission			
JOURNAL	Submitted (21-APR-2005) Weichel M., Molecular Allergology, SIAF, Obere Str. 22, CH-7270 Davos Platz, SWITZERLAND			
FEATURES	Location/Qualifiers			
source	1..119 /organism="Triticum aestivum" /cultivar="Wyuna" /db_xref="taxon:4565" /tissue_type="endosperm"			
Protein	<1..119 /product="alpha-amylase inhibitor 0.19"			
Region	1..98 /region_name="AAI SS" /note="AAI SS: Alpha-Amylase Inhibitors (AAIs) and Seed Storage (SS) Protein subfamily; composed of cereal-type AAIs and SS proteins. They are mainly present in the seeds of a variety of plants. AAIs play an important role in the natural defenses of plants...; cd00261" /db_xref="CDD:238163"			
Site	order(33,85,89,95) /site_type="other" /note="dimer interface [polypeptide binding]" /db_xref="CDD:238163"			
CDS	1..119 /gene="0.19" /coded_by="AJ966333.1:<1..360" /experiment="experimental evidence, no additional details recorded" /db_xref="GOA:Q4W0V7" /db_xref="InterPro:IPR003612" /db_xref="InterPro:IPR006105" /db_xref="InterPro:IPR006106" /db_xref="InterPro:IPR013771" /db_xref="InterPro:IPR016140" /db_xref="UniProtKB/TrEMBL:Q4W0V7"			