

Supplementary Data

Efficient Production of 4'-Hydroxydihydrochalcones Using Non-Conventional Yeast Strains

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Table S1. Conversion of the *trans*-4'-hydroxy-chalcone (**1**) in time.

Strain	Composition [%]	Biotransformation time					
		1h	3h	6h	12h	24h	48h
<i>Yarrowia lipolytica</i> KCh 71	1	1.14±0.19	0.46±0.51	0.36±0.05	0.36±0.25	0.35±0.20	0.13±0.06
	1a	0.50±0.71	0.10±0.15	0.24±0.34	0.16±0.11	0.08±0.04	0.00±0.00
	1b	98.36±0.52	99.41±0.79	99.40±0.86	99.48±0.36	99.57±0.24	99.87±0.06
<i>Saccharomyces cerevisiae</i> KCh 464	1	16.10±4.246	1.85±2.12	0.76±0.34	0.66±0.09	0.56±0.08	0.45±0.25
	1a	16.92±3.61	0.88±1.62	0.14±0.21	0.50±0.16	0.13±0.02	0.00±0.00
	1b	66.98±0.64	97.26±3.75	99.10±0.13	98.84±0.07	99.31±0.10	99.55±0.25
<i>Rhodotorula rubra</i> KCh 82	1	1.78±0.30	0.98±0.03	0.21±0.30	0.55±0.16	0.60±0.34	0.36±0.27
	1a	0.20±0.28	0.12±0.16	0.08±0.11	0.00±0.00	0.11±0.06	0.00±0.00
	1b	98.02±0.2	98.91±0.13	99.71±0.41	99.45±0.16	99.30±0.40	99.64±0.27
<i>Rhodotorula rubra</i> KCh 4	1	1.02±0.04	0.40±0.57	0.38±0.54	0.46±0.64	0.31±0.21	0.46±0.64
	1a	0.62±2.72	0.08±0.11	0.09±0.12	0.06±0.08	0.15±0.12	0.32±0.45
	1b	98.37±2.62	99.52±0.68	99.53±0.66	99.49±0.73	99.54±0.09	99.22±1.11
<i>Rhodotorula glutinis</i> KCh 242	1	2.21±0.30	1.28±0.40	0.22±0.32	0.12±0.18	0.09±0.13	0.00±0.00
	1a	1.86±0.21	0.13±0.18	0.14±0.20	0.14±0.20	0.37±0.52	0.00±0.00
	1b	95.94±0.09	98.59±0.58	99.64±0.52	99.74±0.37	99.54±0.65	100.00±0.00
<i>Rhodotorula marina</i> KCh 77	1	1.10±0.15	0.42±0.60	0.45±0.34	0.40±0.54	0.42±0.06	0.39±0.07
	1a	0.69±0.44	0.14±0.20	0.11±0.16	0.06±0.08	0.09±0.02	0.00±0.00
	1b	98.21±0.30	99.44±0.67	99.44±0.79	99.55±0.64	99.49±0.08	99.61±0.07

Table S2. Conversion of the *trans*-4'-hydroxy-2-methoxychalcone (**2**) in time.

Strain	Composition [%]	Biotransformation time					
		1h	3h	6h	12h	24h	48h
<i>Yarrowia lipolytica</i> KCh 71	2	10.09±2.47	8.76±0.70	9.04±0.12	7.24±0.70	5.95±0.50	4.19±0.54
	2a	12.06±1.74	7.21±2.29	5.32±0.91	4.25±4.53	3.40±4.40	2.67±1.94
	2b	77.86±4.21	84.05±3.00	85.65±1.03	89.51±5.23	90.65±4.90	93.14±2.48
<i>Saccharomyces cerevisiae</i> KCh 464	2	54.33±3.38	59.55±6.58	55.34±5.08	54.72±2.28	51.72±1.71	50.83±5.23
	2a	35.07±5.33	27.78±2.45	30.76±0.73	29.54±4.91	29.54±4.91	20.80±2.42
	2b	10.61±1.96	12.67±4.13	13.90±4.35	15.44±4.22	18.75±3.20	28.38±2.80
<i>Rhodotorula rubra</i> KCh 82	2	33.17±2.47	32.28±1.61	34.79±5.04	31.25±1.54	25.02±0.29	18.85±4.35
	2a	40.12±3.60	35.08±4.39	19.43±0.37	14.73±4.57	12.73±4.39	10.84±1.64
	2b	26.72±6.07	32.65±6.00	45.79±4.67	54.04±3.03	61.81±4.09	70.31±5.99
<i>Rhodotorula rubra</i> KCh 4	2	24.86±1.01	20.99±1.32	16.82±2.69	10.97±4.14	11.34±2.33	11.34±3.78
	2a	14.60±4.21	9.77±4.05	10.34±3.38	12.89±1.28	7.34±0.72	6.14±2.14
	2b	60.54±3.20	69.24±5.37	72.83±6.07	75.14±5.42	82.11±3.06	82.64±5.92
<i>Rhodotorula glutinis</i> KCh 242	2	12.86±1.45	9.00±1.04	6.91±0.95	7.13±2.30	4.89±1.10	5.26±1.68
	2a	13.08±0.75	3.20±1.95	2.22±1.22	2.26±1.60	3.00±0.87	2.70±1.94
	2b	74.07±0.65	87.81±2.99	90.88±2.17	90.61±3.90	92.11±1.97	92.04±0.29
<i>Rhodotorula marina</i> KCh 77	2	33.85±1.55	23.31±3.10	22.93±0.19	16.02±0.02	14.28±0.28	12.31±4.23
	2a	17.27±2.65	17.89±1.15	9.20±2.40	13.19±4.49	11.85±4.85	12.11±1.99
	2b	48.89±1.10	58.89±1.95	67.87±2.59	70.79±4.51	73.87±5.13	75.58±2.24

Table S3. Conversion of the *trans*-4'-hydroxy-3-methoxychalcone (**3**) in time.

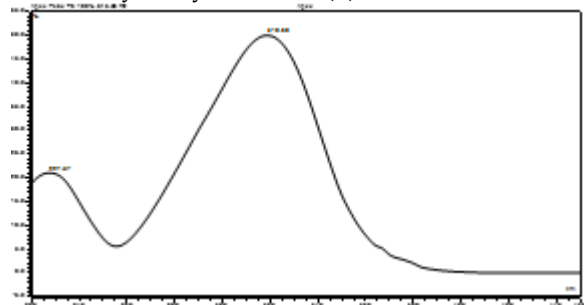
Strain	Composition [%]	Biotransformation time					
		1h	3h	6h	12h	24h	48h
<i>Yarrowia lipolytica</i> KCh 71	3	1.09±0.07	0.66±0.36	0.32±0.26	0.42±0.39	0.38±0.04	0.21±0.07
	3a	0.79±0.26	0.29±0.15	0.28±0.17	0.32±0.15	0.31±0.06	0.31±0.08
	3b	98.13±0.21	99.05±0.51	99.40±0.43	99.26±0.54	99.31±0.11	99.48±0.16
<i>Saccharomyces cerevisiae</i> KCh 464	3	34.76±1.83	30.59±2.82	22.64±2.15	23.17±2.24	16.53±1.58	2.90±0.27
	3a	34.32±1.65	22.27±1.84	24.13±2.31	21.32±2.00	15.65±1.52	6.69±0.68
	3b	30.92±3.47	47.14±4.63	53.23±4.46	55.51±4.24	66.3.10	90.41±0.95
<i>Rhodotorula rubra</i> KCh 82	3	4.17±1.20	1.74±0.67	0.91±0.56	0.24±0.17	0.69±0.39	0.28±0.16
	3a	2.28±0.95	0.51±0.35	0.53±0.36	0.28±0.12	0.41±0.28	0.46±0.31
	3b	93.55±2.16	96.75±1.02	98.57±0.92	99.48±0.29	98.10±0.67	99.26±0.48
<i>Rhodotorula rubra</i> KCh 4	3	0.91±0.17	0.77±0.32	0.23±0.12	0.39±0.19	0.16±0.13	0.33±0.05
	3a	0.35±0.12	0.23±0.17	0.33±0.06	0.29±0.14	0.17±0.12	0.26±0.10
	3b	98.74±0.33	99.01±0.27	99.44±0.18	99.31±0.33	99.67±0.25	99.41±0.15
<i>Rhodotorula glutinis</i> KCh 242	3	1.46±0.44	1.17±0.15	0.58±0.16	0.51±0.29	0.44±0.28	0.38±0.17
	3a	1.14±0.45	0.55±0.44	0.55±0.10	0.67±0.42	0.51±0.29	0.49±0.35
	3b	97.40±0.89	98.28±0.30	98.87±0.26	98.72±0.71	99.05±0.57	99.13±0.18
<i>Rhodotorula marina</i> KCh 77	3	1.59±0.45	0.97±0.13	0.69±0.30	0.53±0.06	0.52±0.31	0.47±0.22
	3a	0.90±0.19	0.51±0.24	0.22±0.32	0.37±0.07	0.45±0.18	0.58±0.37
	3b	97.51±0.63	98.52±0.37	98.99±0.46	99.10±0.13	99.03±0.13	98.98±0.59

Table S4. Conversion of the *trans*-4'-hydroxy-4-methoxychalcone (**4**) in time.

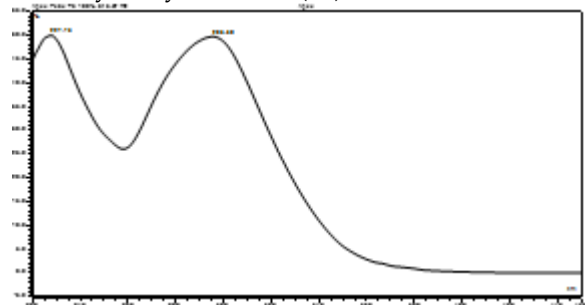
Strain	Composition [%]	Biotransformation time					
		1h	3h	6h	12h	24h	48h
<i>Yarrowia lipolytica</i> KCh 71	4	7.07±4.22	3.46±1.69	1.45±0.20	0.68±0.36	0.29±0.17	0.42±0.11
	4a	0.40±0.56	3.23±1.73	0.33±0.06	0.57±0.42	0.58±0.38	0.48±0.41
	4b	92.53±3.67	93.31±3.42	98.22±0.26	98.75±0.75±	99.13±0.55	99.10±0.52
<i>Saccharomyces cerevisiae</i> KCh 464	4	32.78±3.60	11.70±4.33	0.85±0.47	0.76±0.54	0.60±0.33	0.40±0.33
	4a	0.63±0.46	3.63±2.31	6.27±2.55	3.77±0.79	2.53±1.32	1.57±0.84
	4b	66.59±4.06	83.67±4.64	92.88±3.02	95.47±1.33	96.87±1.65	98.03±1.17
<i>Rhodotorula rubra</i> KCh 82	4	10.08±3.82	0.97±1.09	0.55±0.36	0.42±0.03	0.49±0.22	0.31±0.05
	4a	0.64±0.12	2.25±0.36	1.44±0.38	0.57±0.55	0.54±0.24	0.59±0.44
	4b	89.28±4.92	96.78±1.45	98.01±0.74	99.01±0.58	98.97±0.46	99.10±0.39
<i>Rhodotorula rubra</i> KCh 4	4	2.76±0.88	0.81±0.14	0.80±0.05	0.35±0.31	0.36±0.05	0.37±0.33
	4a	0.26±0.16	0.47±0.16	0.41±0.40	0.39±0.12	0.29±0.11	0.47±0.29
	4b	96.99±0.72	98.72±0.30	98.78±0.46	99.25±0.43	99.35±0.06	99.17±0.62
<i>Rhodotorula glutinis</i> KCh 242	4	25.03±4.12	4.97±2.25	2.02±0.93	1.83±0.25	1.11±0.46	0.65±0.29
	4a	0.39±0.19	2.42±1.53	0.97±0.26	0.73±0.47	0.72±0.46	0.48±0.22
	4b	74.59±3.93	92.62±3.78	97.01±1.18	97.45±0.72	98.18±0.92	98.87±0.51
<i>Rhodotorula marina</i> KCh 77	4	10.08±0.30	4.89±1.21	1.99±0.42	0.96±0.17	0.59±0.34	0.55±0.17
	4a	0.35±0.24	2.55±0.52	0.92±0.56	0.67±0.41	0.45±0.07	0.35±0.19
	4b	89.57±	92.56±0.70	97.09±0.98	98.37±0.59	98.96±0.41	99.10±0.36

Figure S1. The UV absorption maxima of *trans*- and *cis*-4'-hydroxy-chalkones.

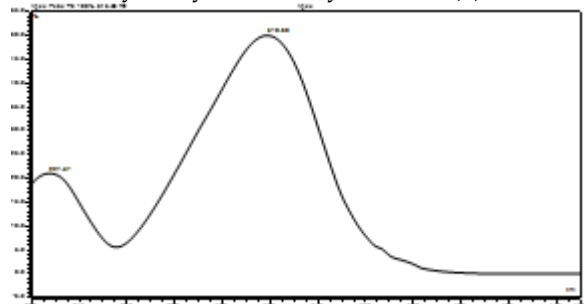
trans-4'-hydroxy-chalcone (1)



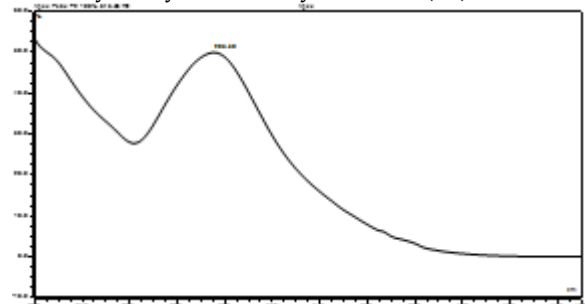
cis-4'-hydroxy-chalcone (1a)



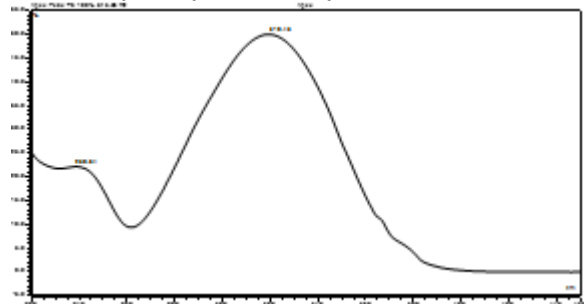
trans-4'-hydroxy-2-methoxychalcone (2)



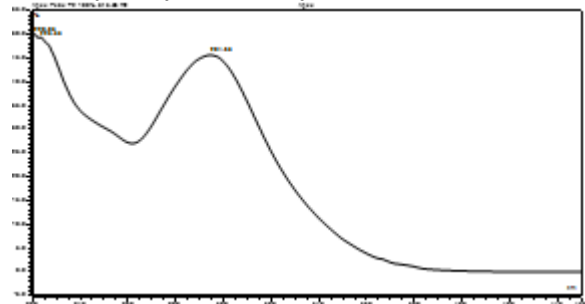
cis-4'-hydroxy-2-methoxychalcone (2a)



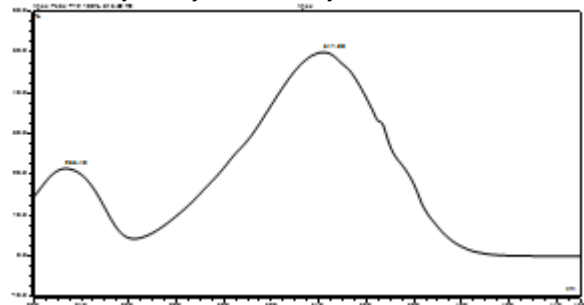
trans-4'-hydroxy-3-methoxychalcone (3)



cis-4'-hydroxy-3-methoxychalcone (3a)



trans-4'-hydroxy-4-methoxychalcone (4)



cis-4'-hydroxy-4-methoxychalcone (4a)

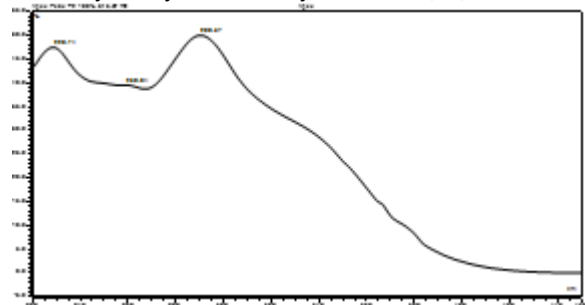


Figure S2. ^1H NMR spectrum of *trans*-4'-hydroxychalcone (**1**) (DMSO- d_6 , 600 MHz)

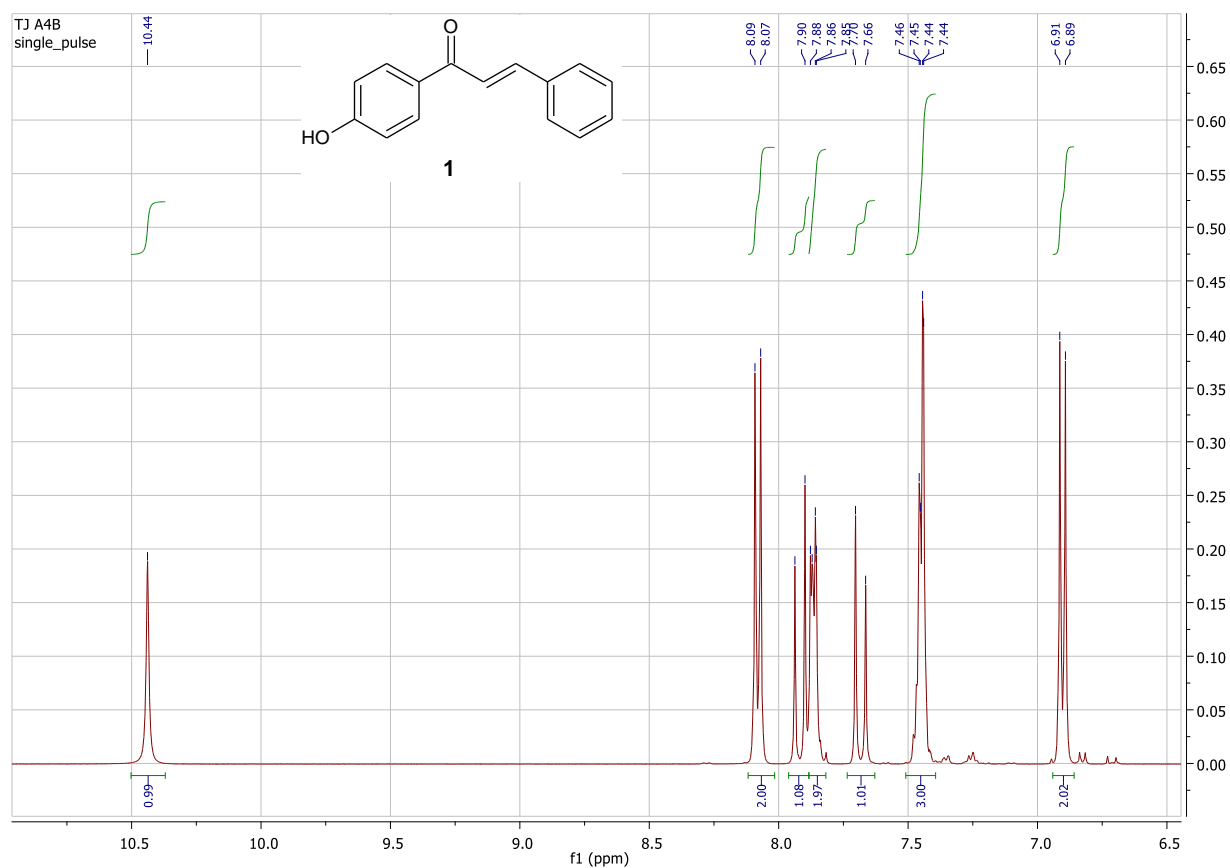


Figure S3. ^{13}C NMR spectrum of *trans*-4'-hydroxychalcone (**1**) (DMSO- d_6 , 151 MHz)

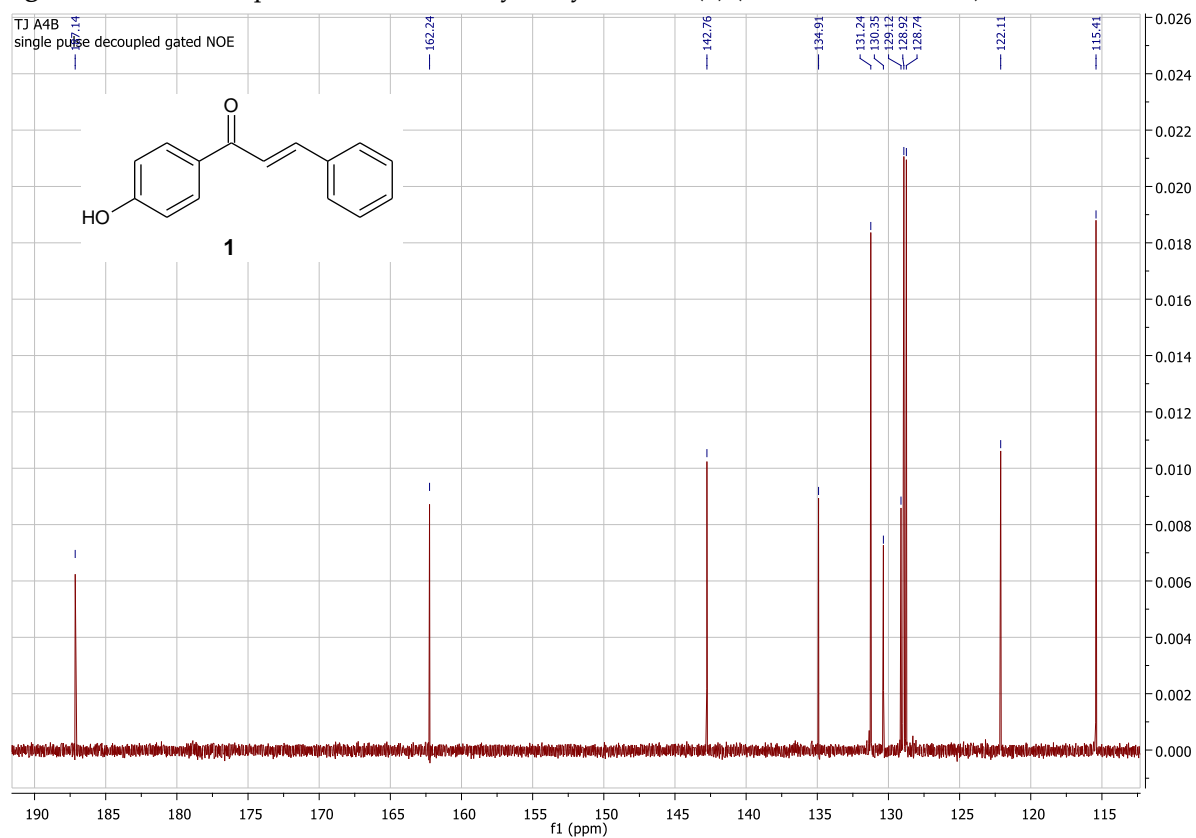


Figure S4. COSY NMR spectrum of *trans*-4'-hydroxychalcone (**1**) (DMSO-*d*₆, 600 MHz)

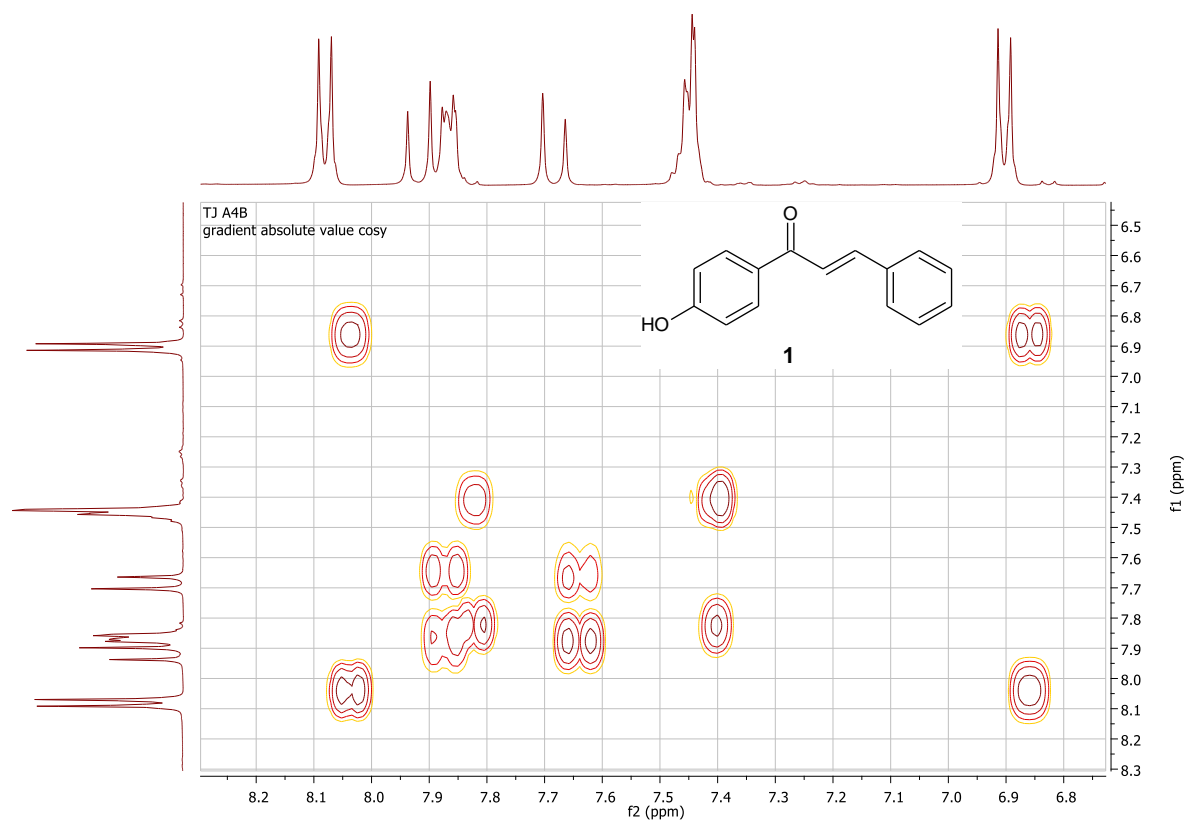


Figure S5. HMQC NMR spectrum of *trans*-4'-hydroxychalcone (**1**) (DMSO-*d*₆, 600 MHz)

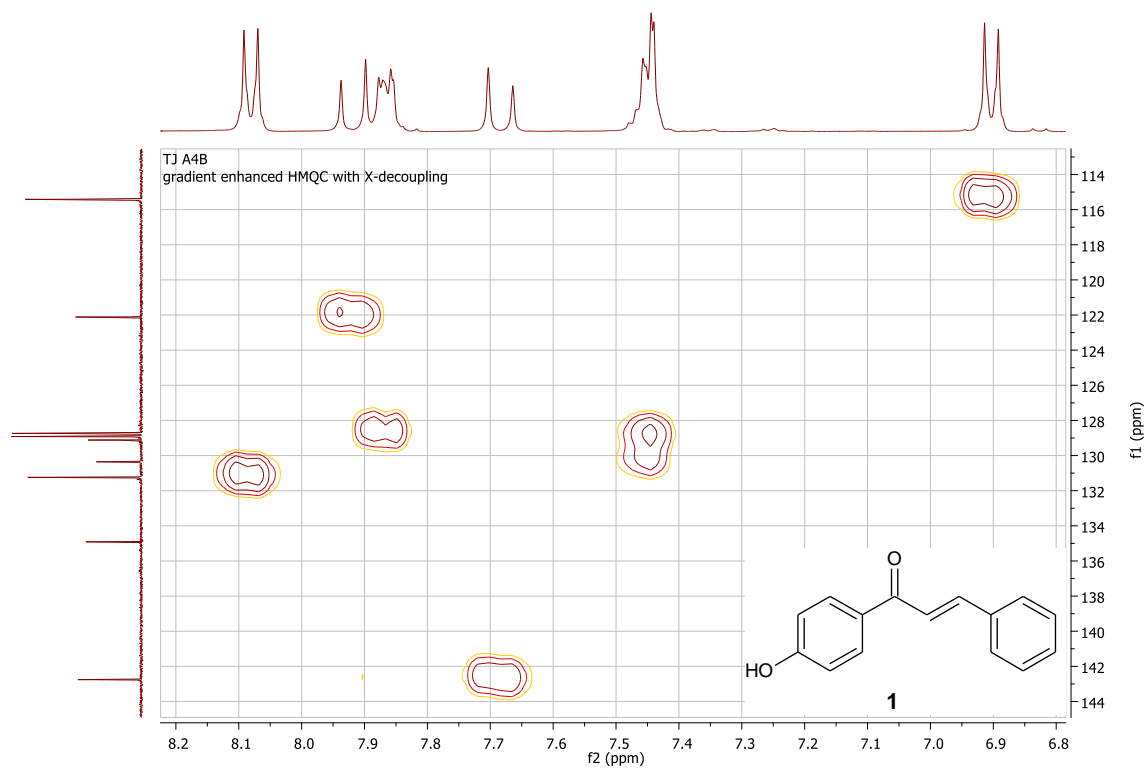


Figure S6. HMBC NMR spectrum of *trans*-4'-hydroxychalcone (**1**) (DMSO-*d*₆, 600 MHz)

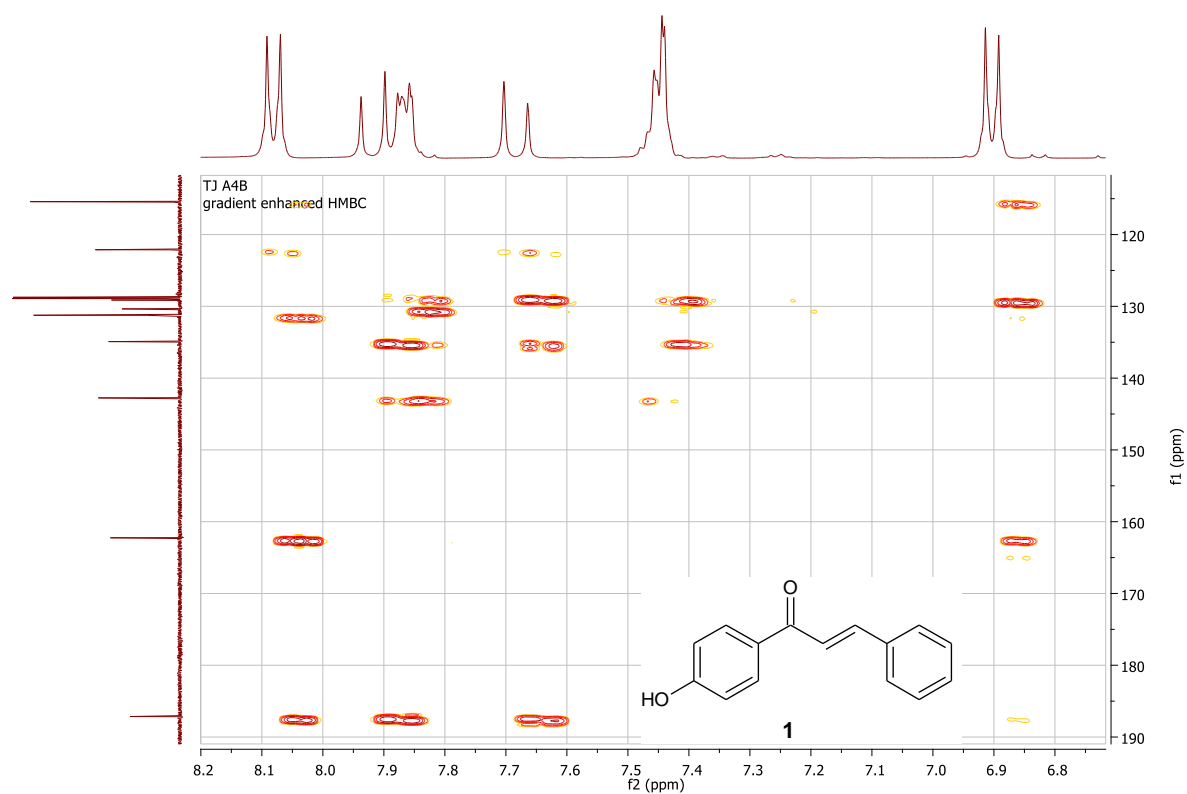


Figure S7. ¹H NMR spectrum of *cis*-4'-hydroxychalcone (**1a**) (DMSO-*d*₆, 600 MHz)

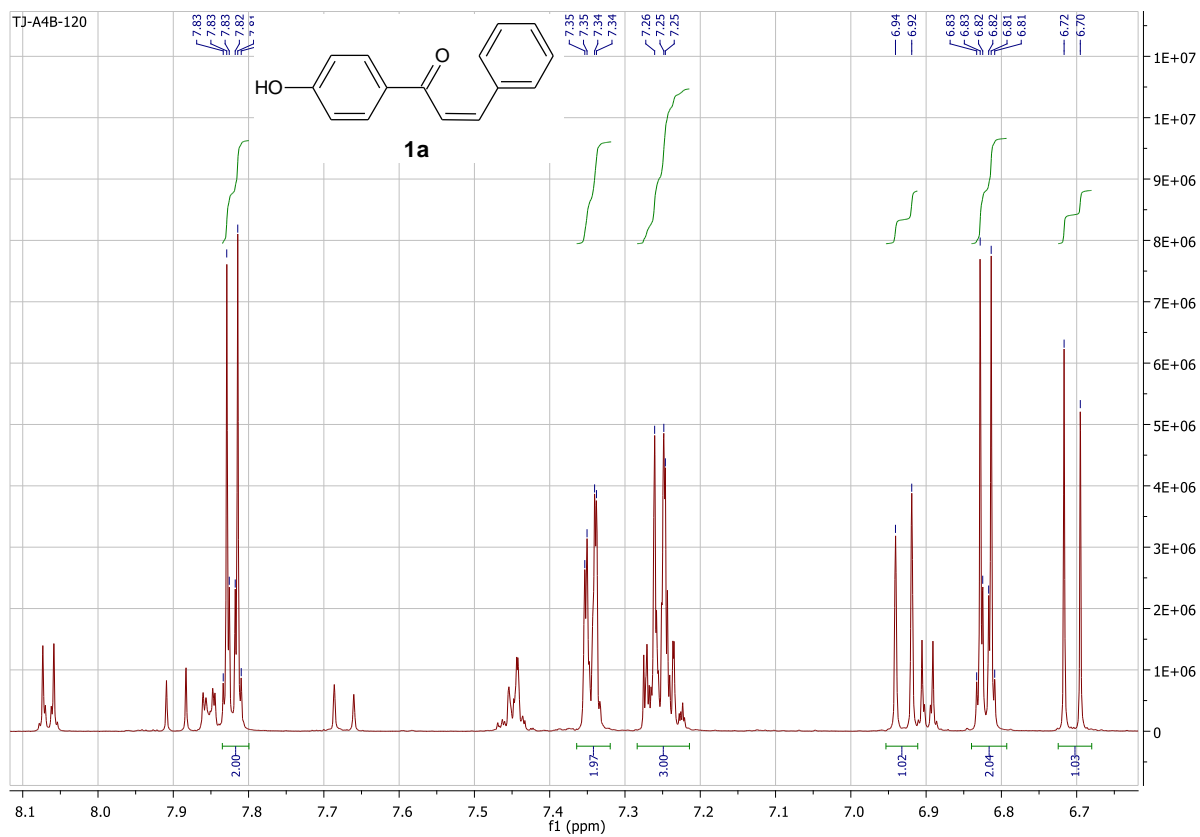


Figure S8. ^{13}C NMR spectrum of *cis*-4'-hydroxychalcone (**1a**) (DMSO- d_6 , 151 MHz)

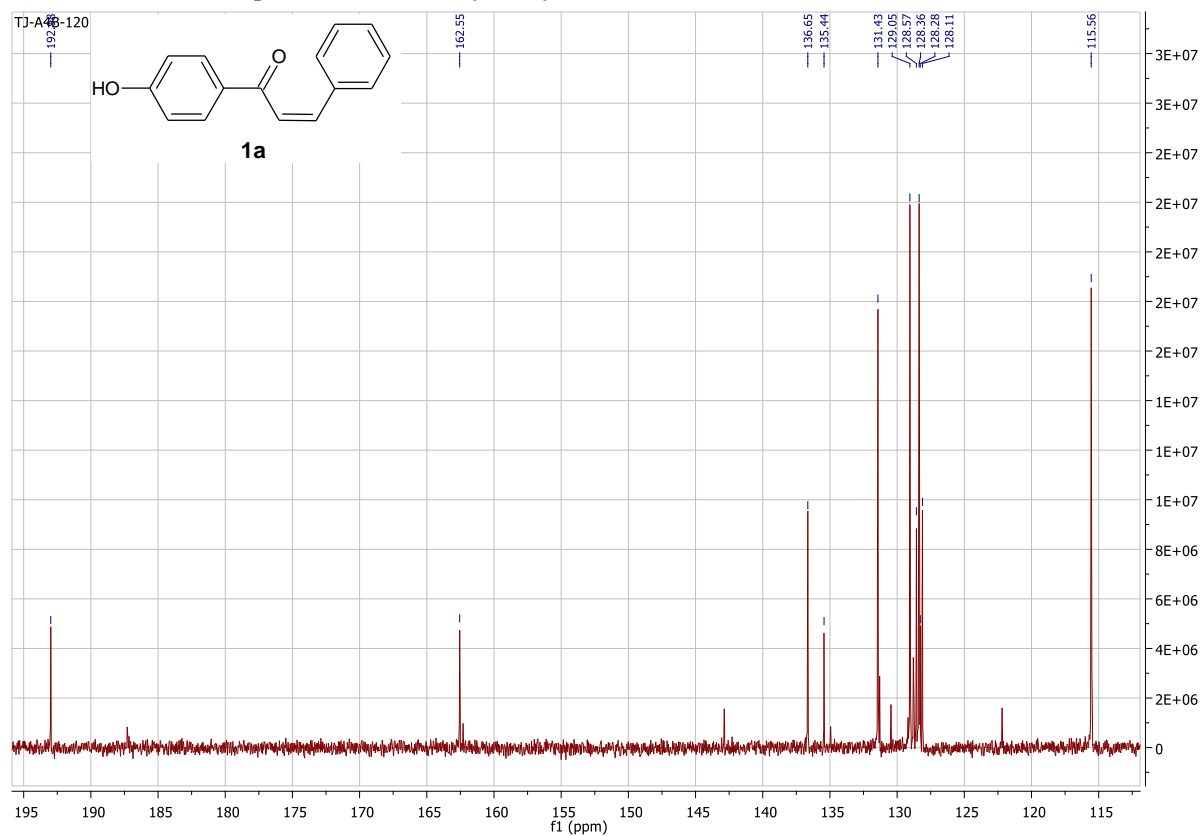


Figure S9. COSY NMR spectrum of *cis*-4'-hydroxychalcone (**1a**) (DMSO- d_6 , 600 MHz)

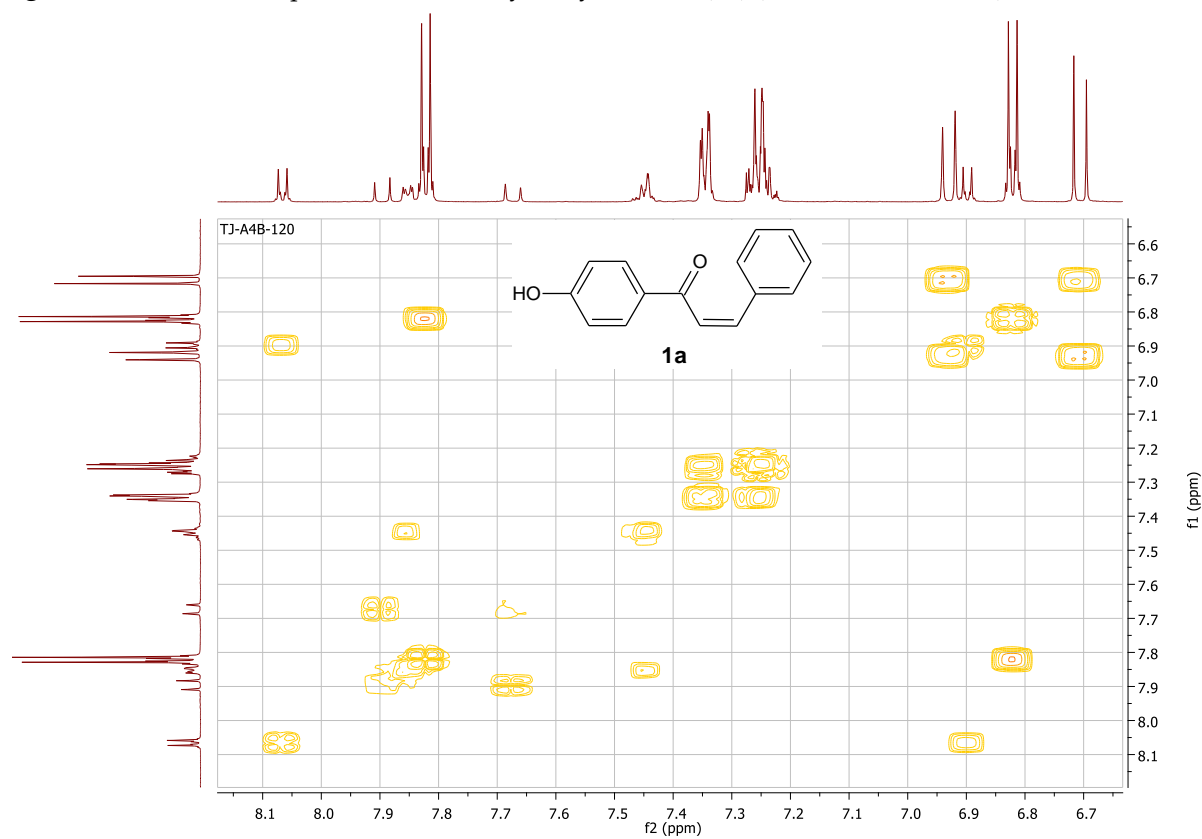


Figure S10. HMQC NMR spectrum of *cis*-4'-hydroxychalcone (**1a**) (DMSO-*d*₆, 600 MHz)

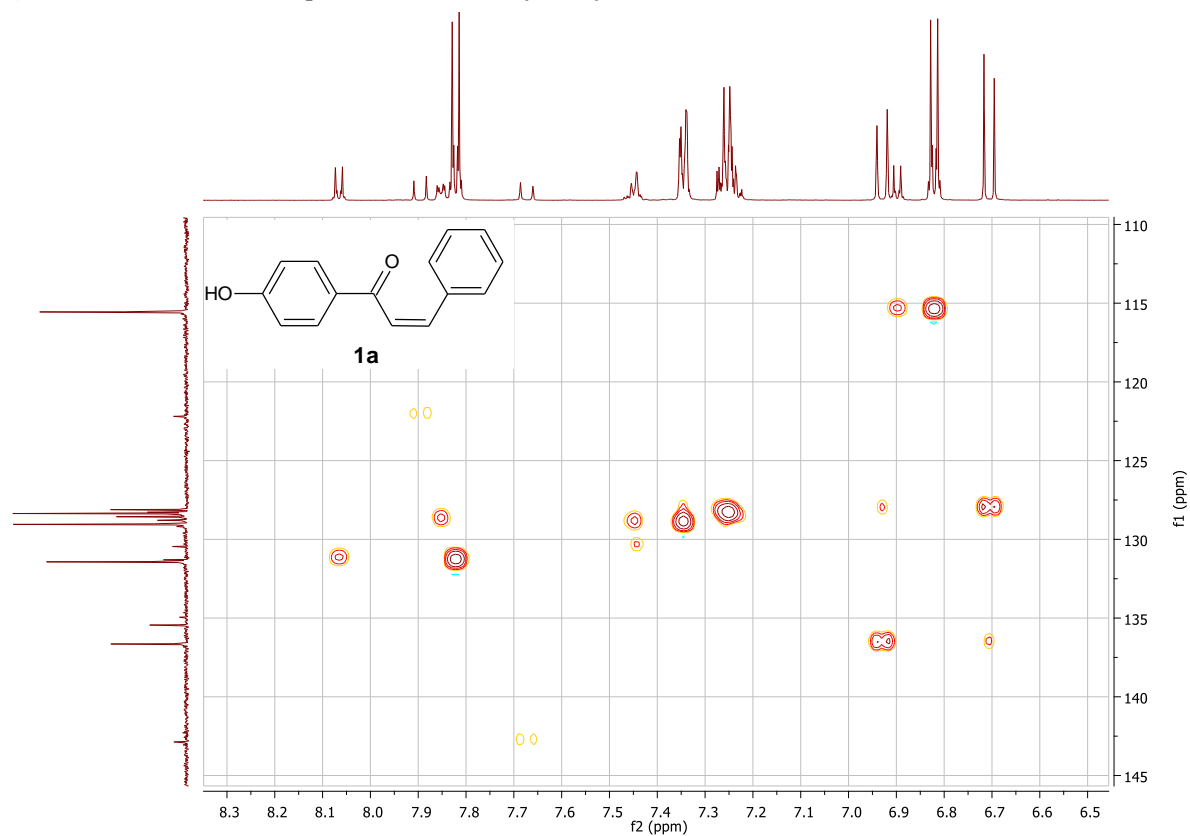


Figure S11. HMBC NMR spectrum of *cis*-4'-hydroxychalcone (**1a**) (DMSO-*d*₆, 600 MHz)

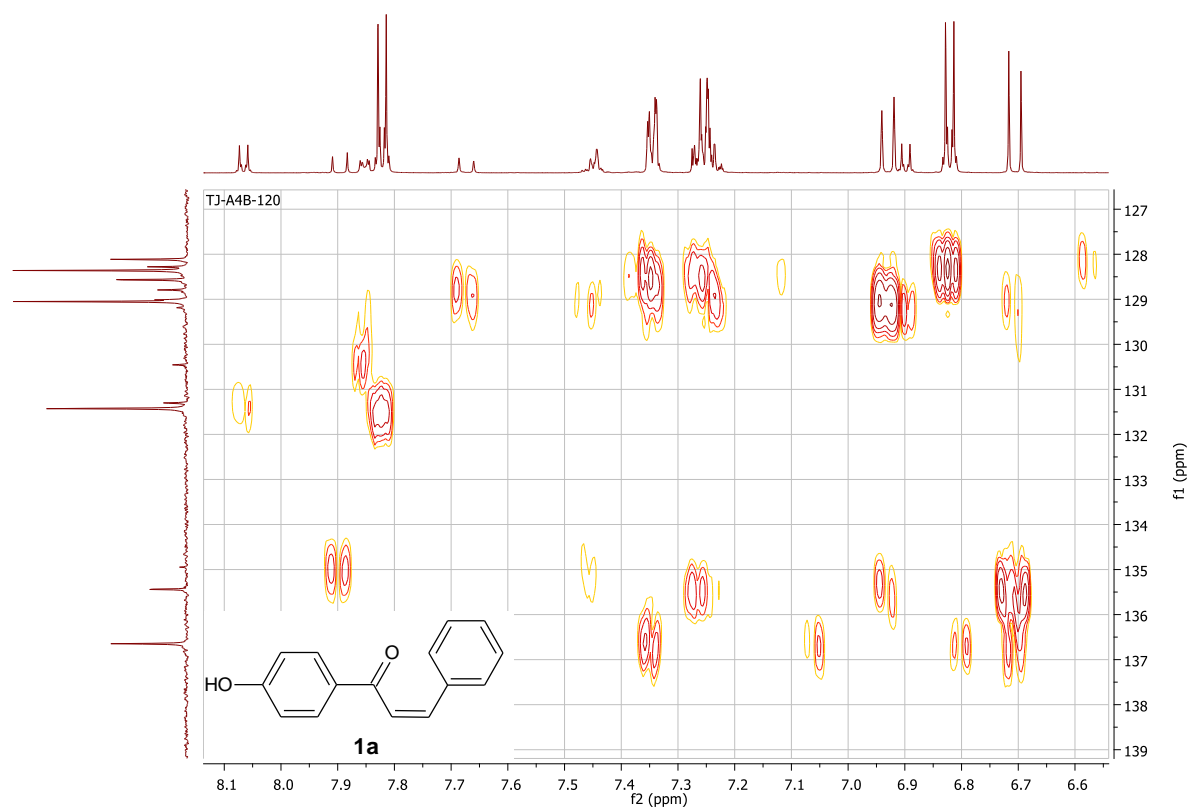


Figure S12. ^1H NMR spectrum of 4'-hydroxydihydrochalcone (**1b**) (DMSO- d_6 , 600 MHz)

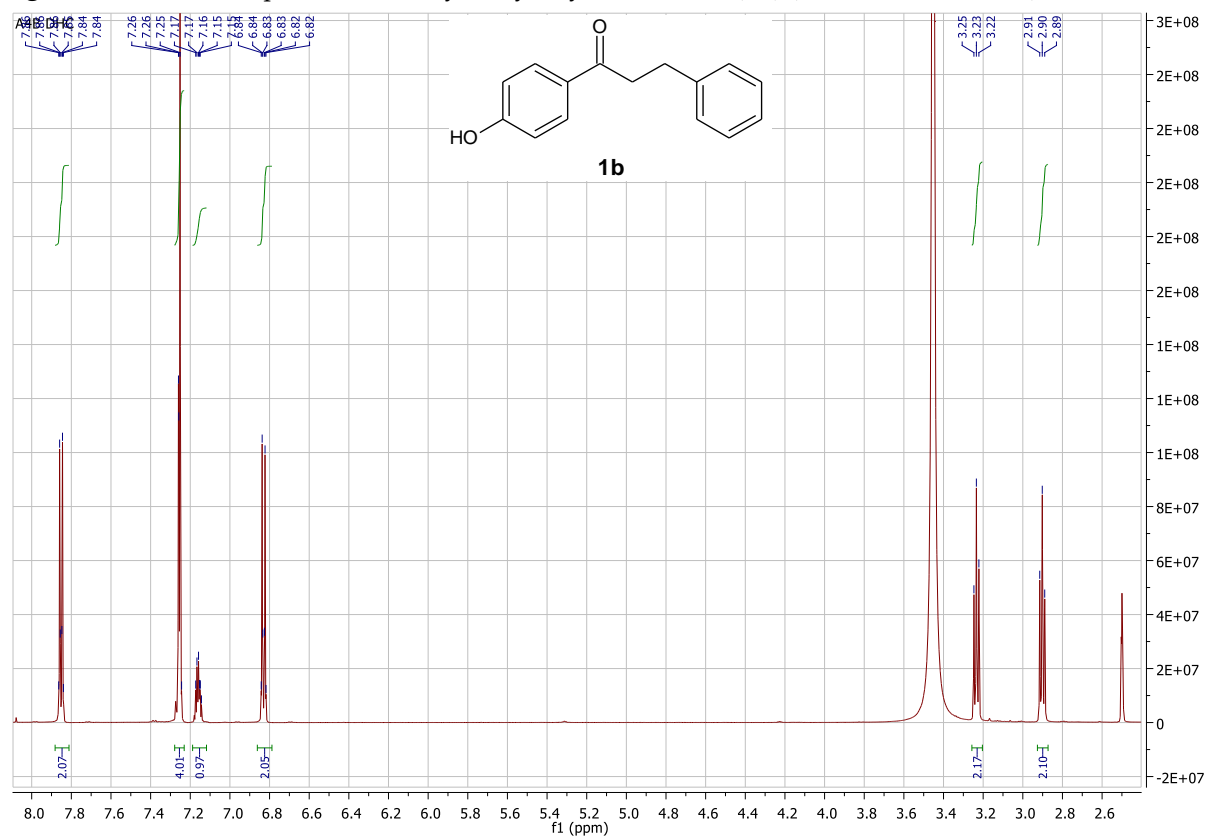


Figure S13. ^{13}C NMR spectrum of 4'-hydroxydihydrochalcone (**1b**) (DMSO- d_6 , 151 MHz)

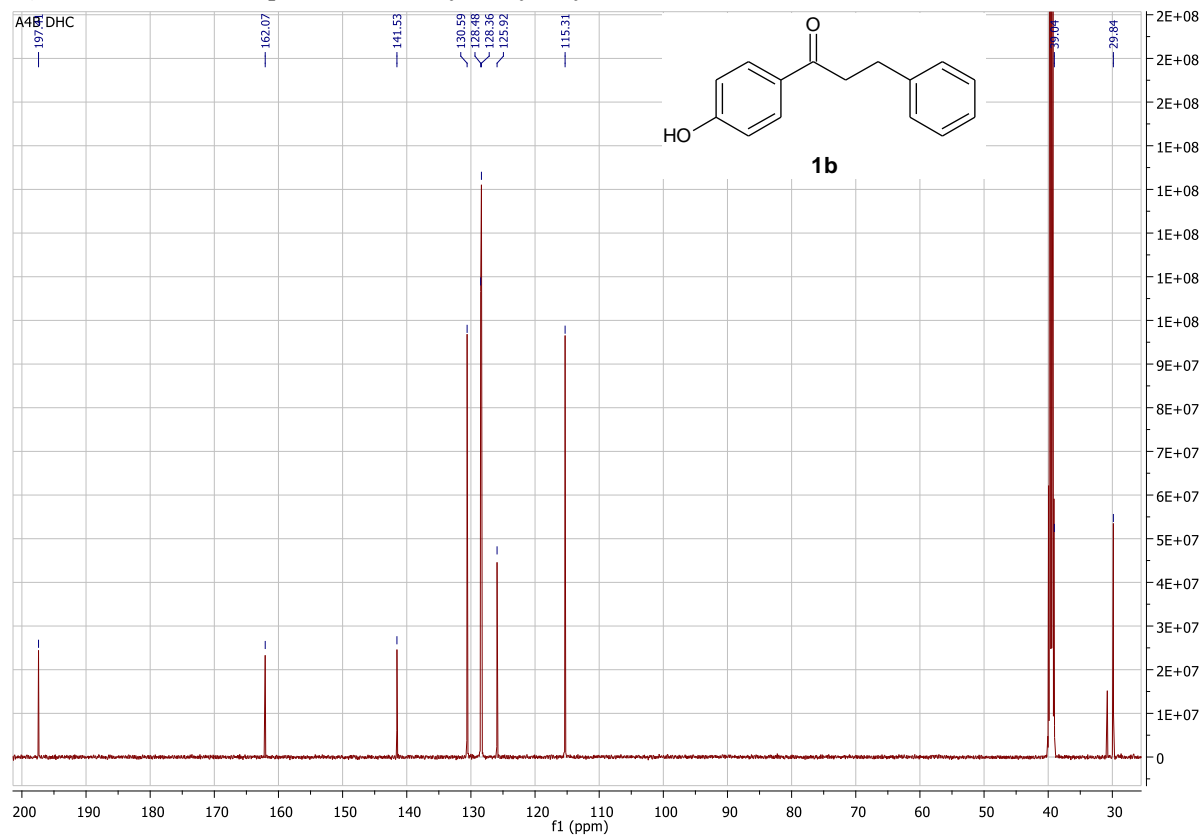


Figure S14. COSY NMR spectrum of 4'-hydroxydihydrochalcone (**1b**) (DMSO-*d*₆, 600 MHz)

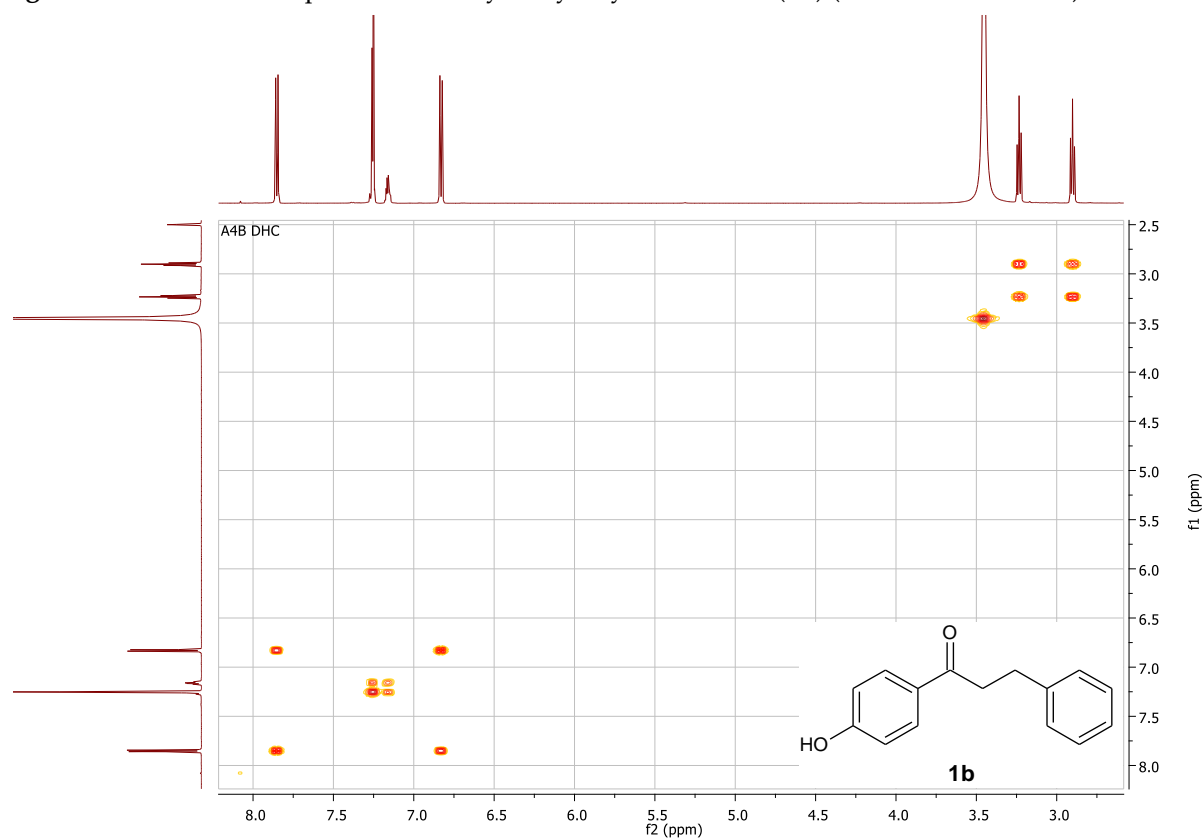


Figure S15. HMQC NMR spectrum of 4'-hydroxydihydrochalcone (**1b**) (DMSO-*d*₆, 600 MHz)

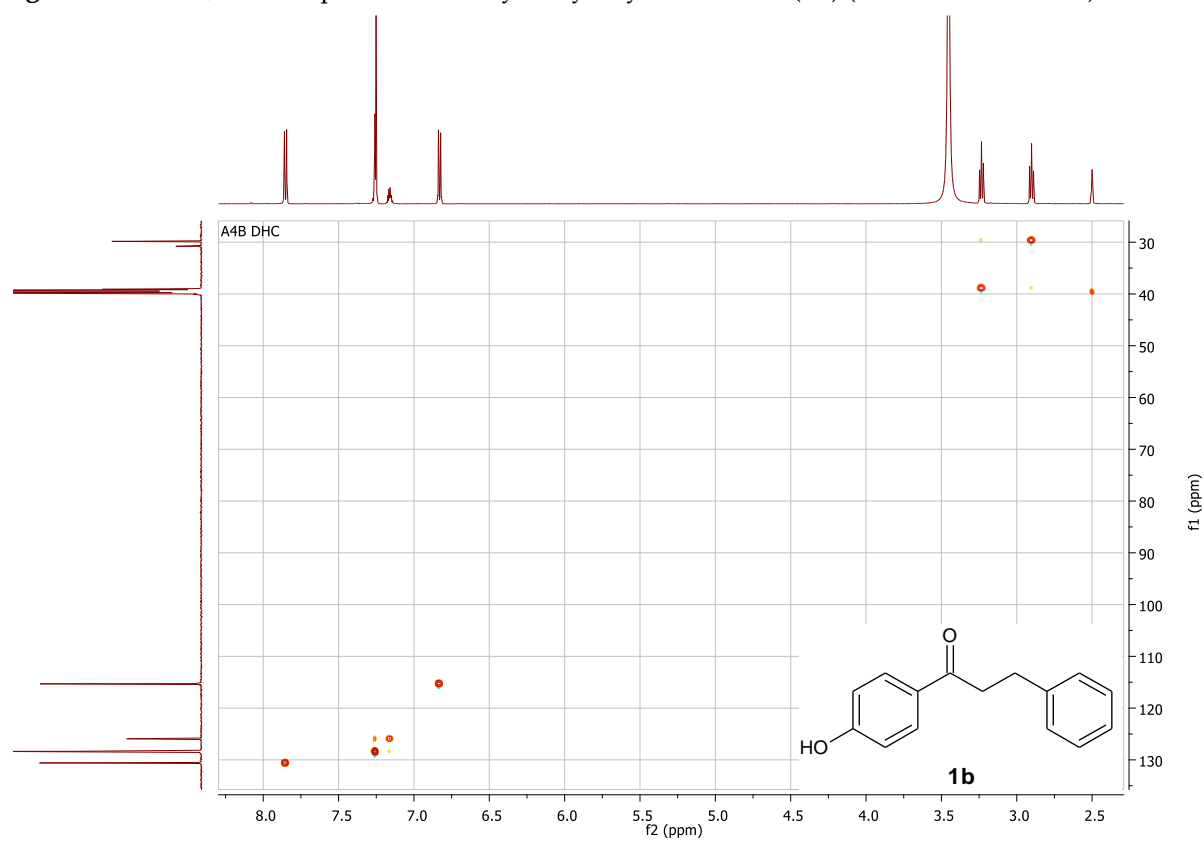


Figure S16. HMBC NMR spectrum of 4'-hydroxydihydrochalcone (**1b**) (DMSO-*d*₆, 600 MHz)

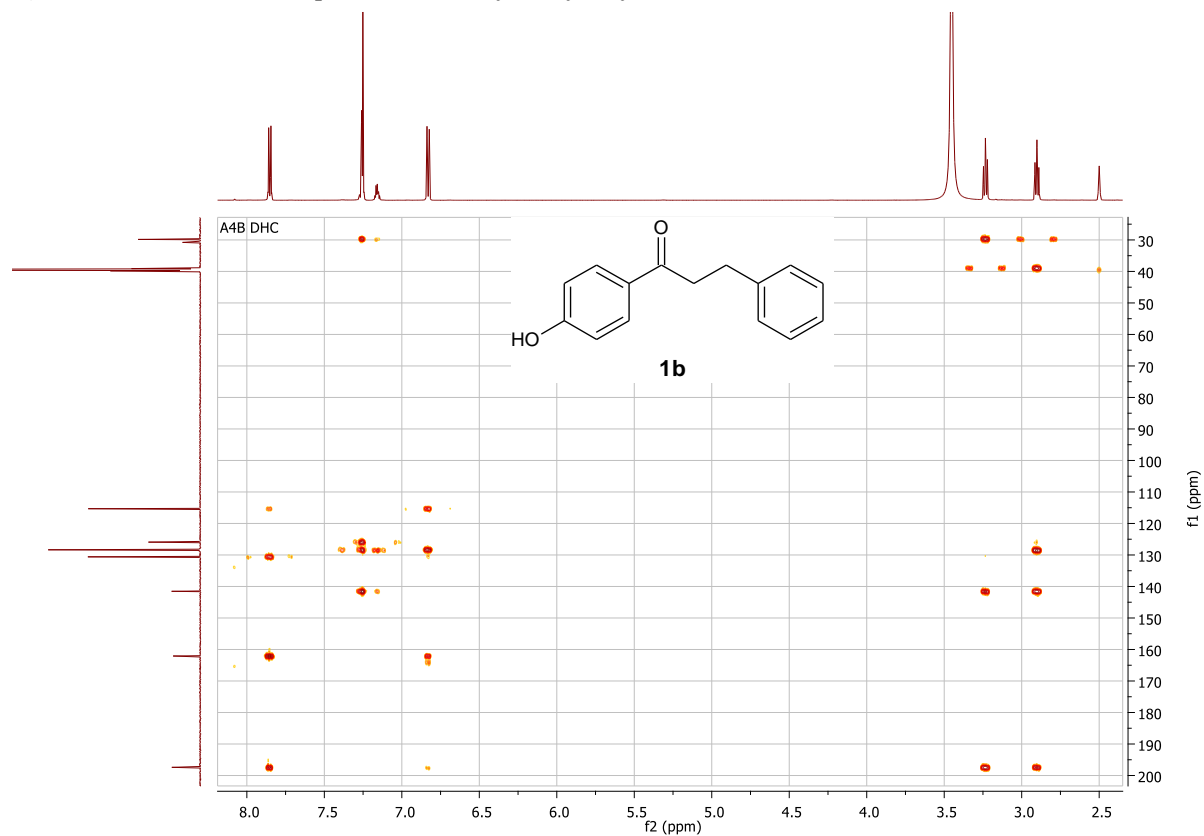


Figure S17. ¹H NMR spectrum of *trans*-4'-hydroxy-2-methoxychalcone (**2**) (DMSO-*d*₆, 600 MHz)

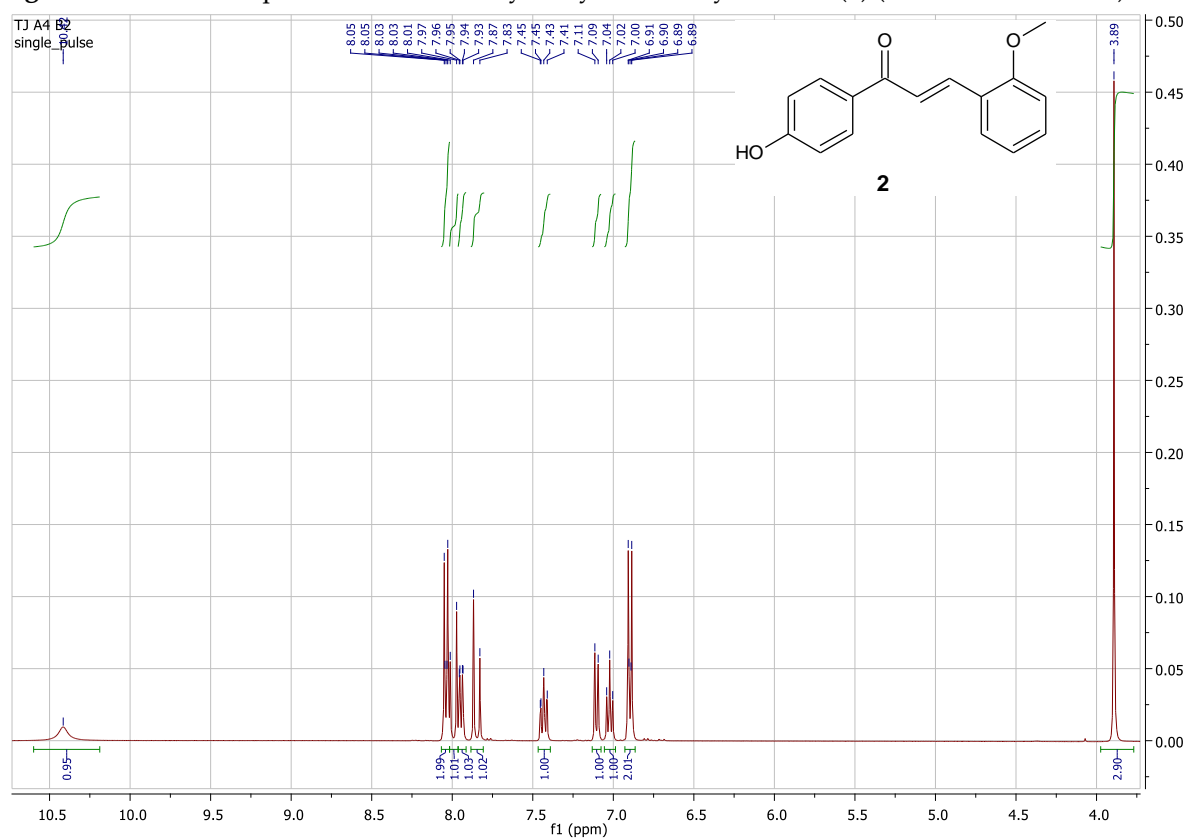


Figure S18. Part of the ^1H NMR spectrum of *trans*-4'-hydroxy-2-methoxychalcone (**2**) (DMSO- d_6 , 600 MHz)

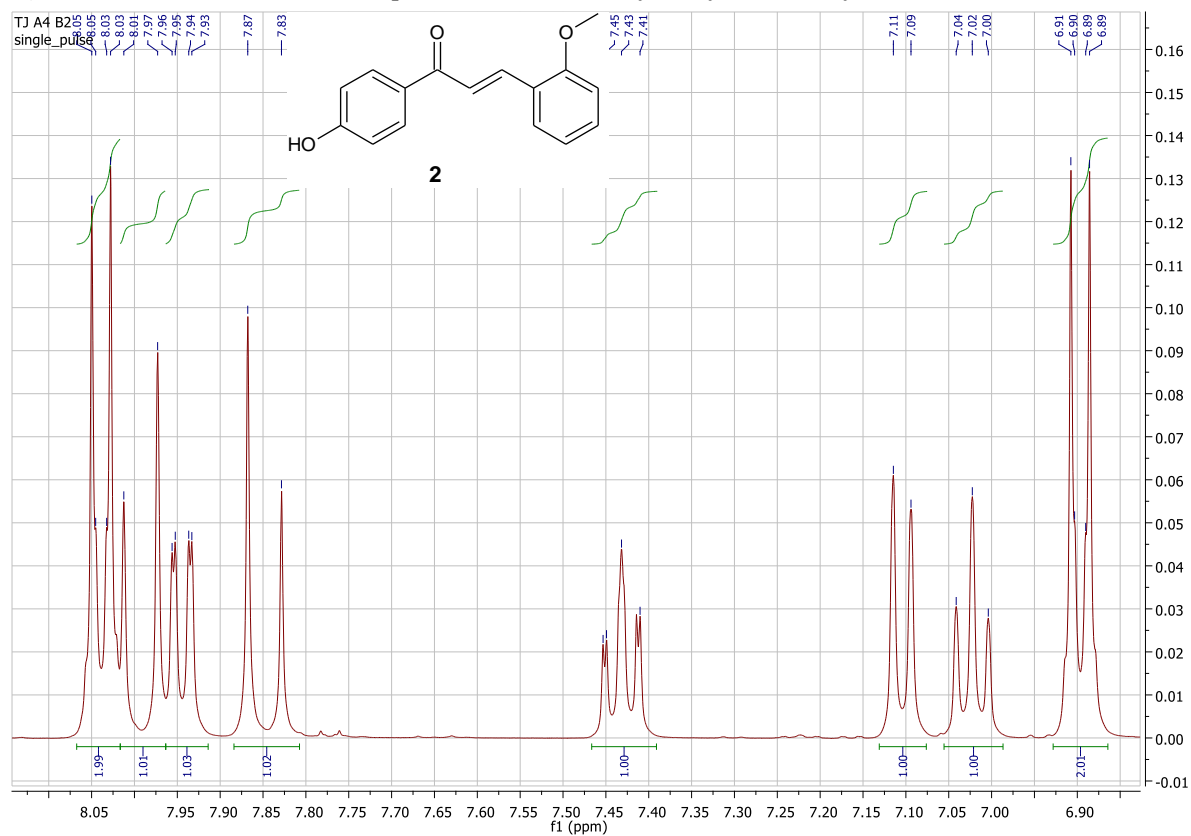


Figure S19. ^{13}C NMR spectrum of *trans*-4'-hydroxy-2-methoxychalcone (**2**) (DMSO- d_6 , 151 MHz)

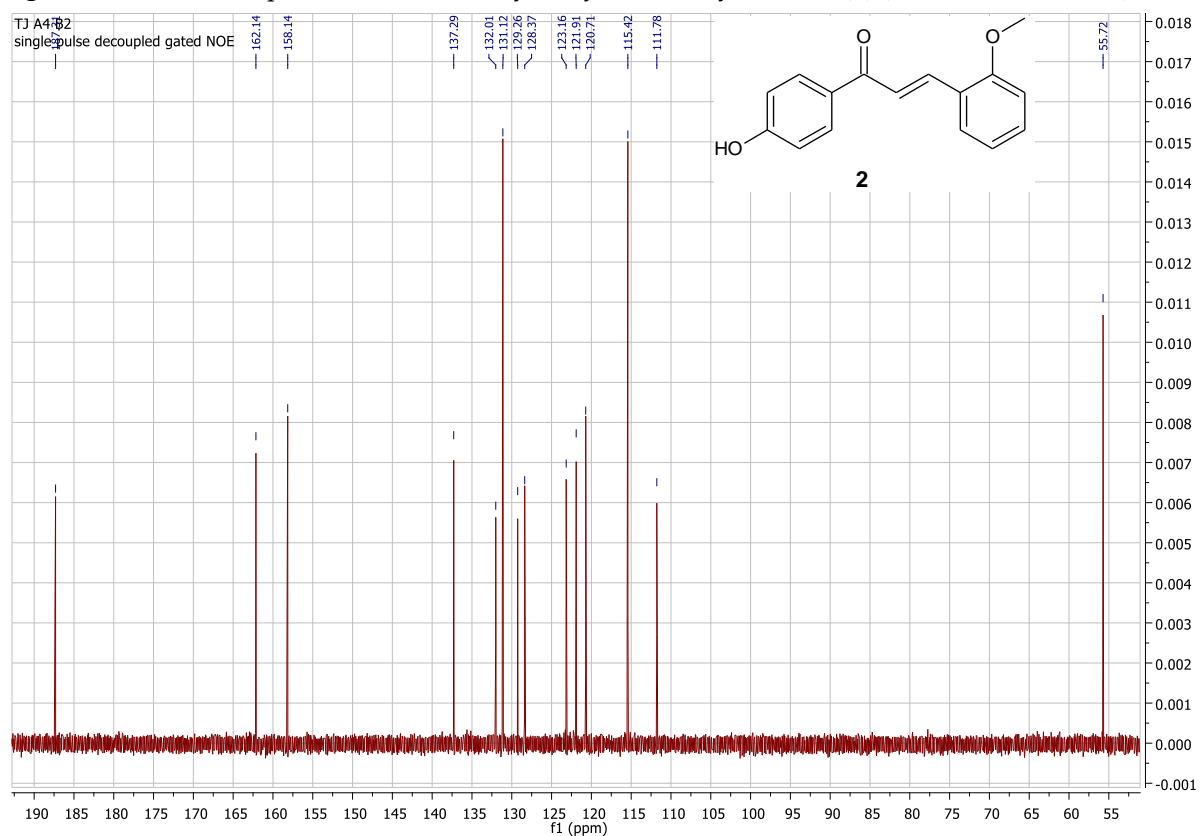


Figure S20. COSY NMR spectrum of of *trans*-4'-hydroxy-2-methoxychalcone (**2**) (DMSO-*d*₆, 600 MHz)

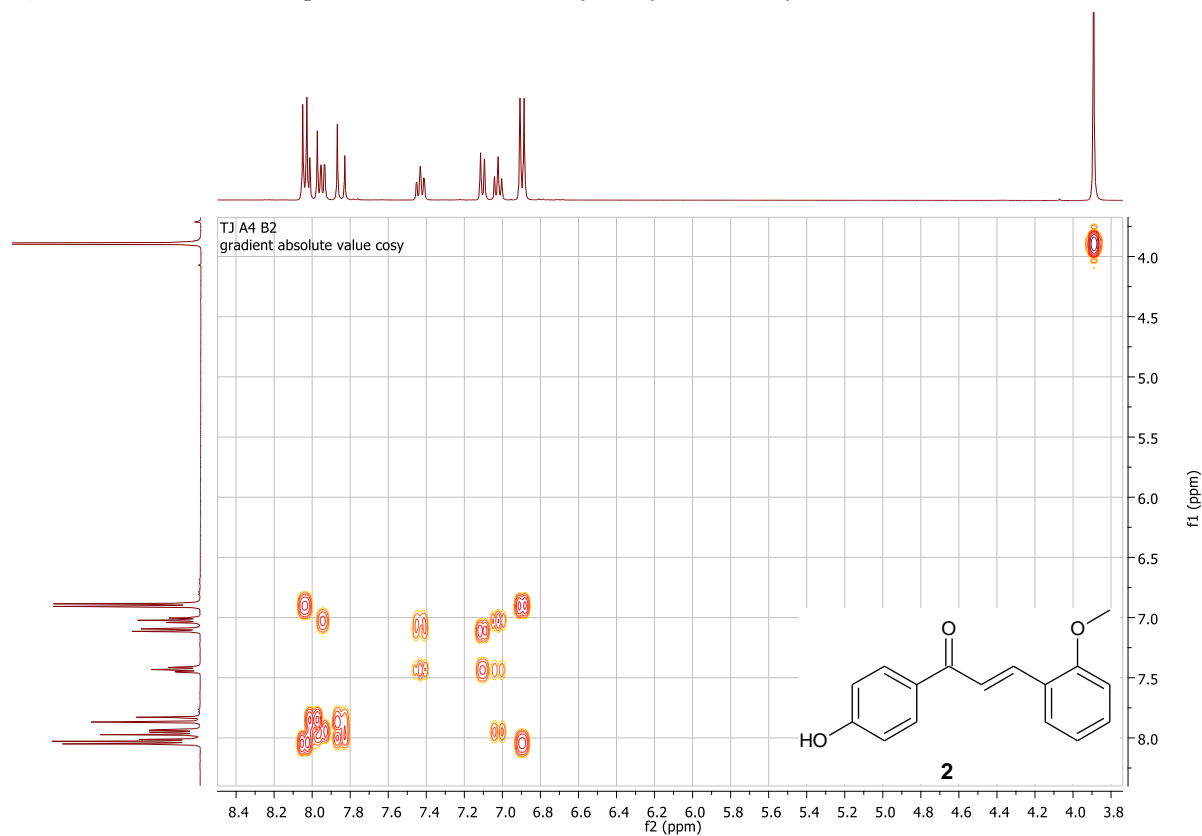


Figure S21. HMQC NMR spectrum of of *trans*-4'-hydroxy-2-methoxychalcone (**2**) (DMSO-*d*₆, 600 MHz)

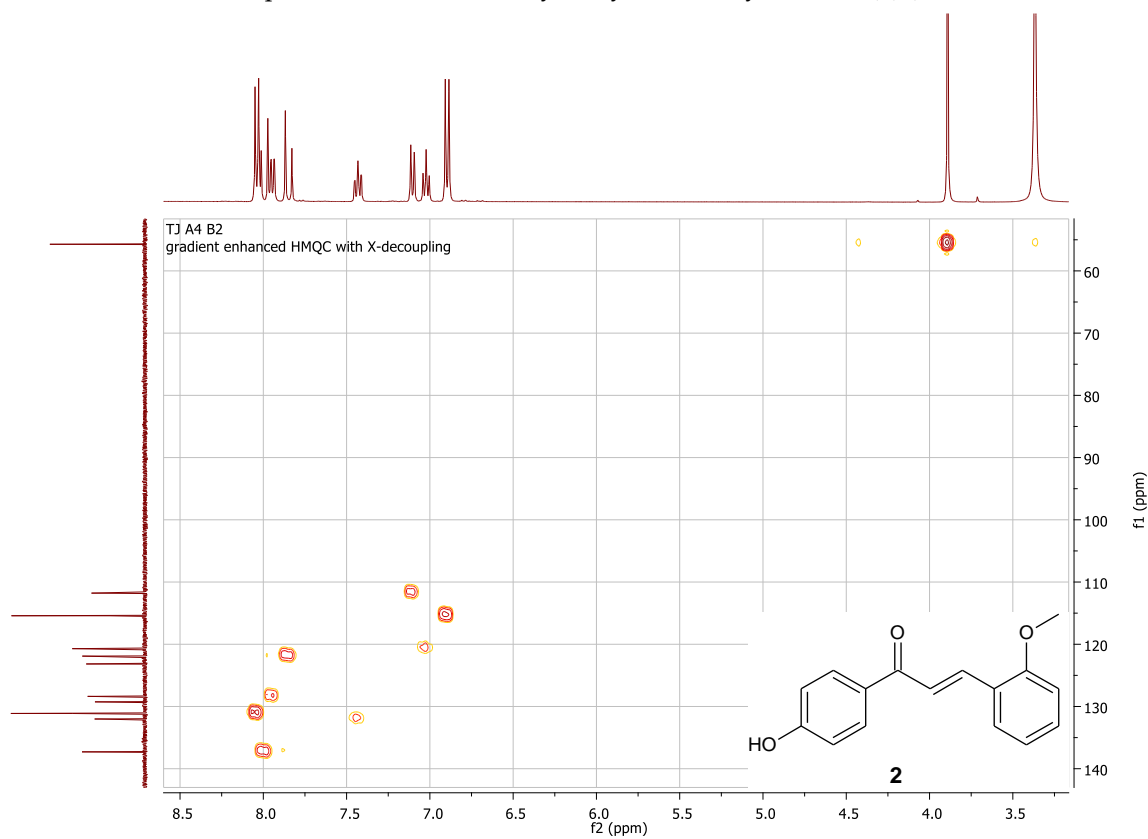


Figure S22. HMBC NMR spectrum of *trans*-4'-hydroxy-2-methoxychalcone (**2**) (DMSO-*d*₆, 600 MHz)

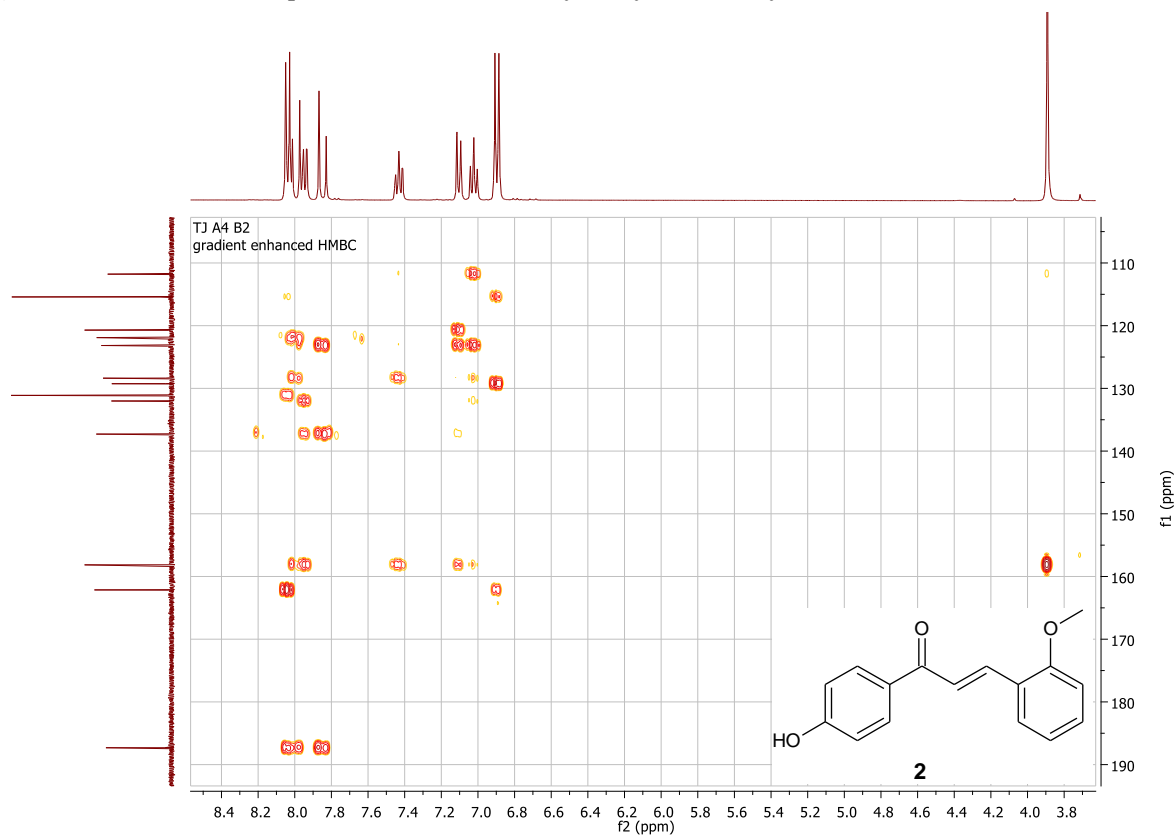


Figure S22. ¹H NMR spectrum of *cis*-4'-hydroxy-2-methoxychalcone (**2a**) (DMSO-*d*₆, 600 MHz)

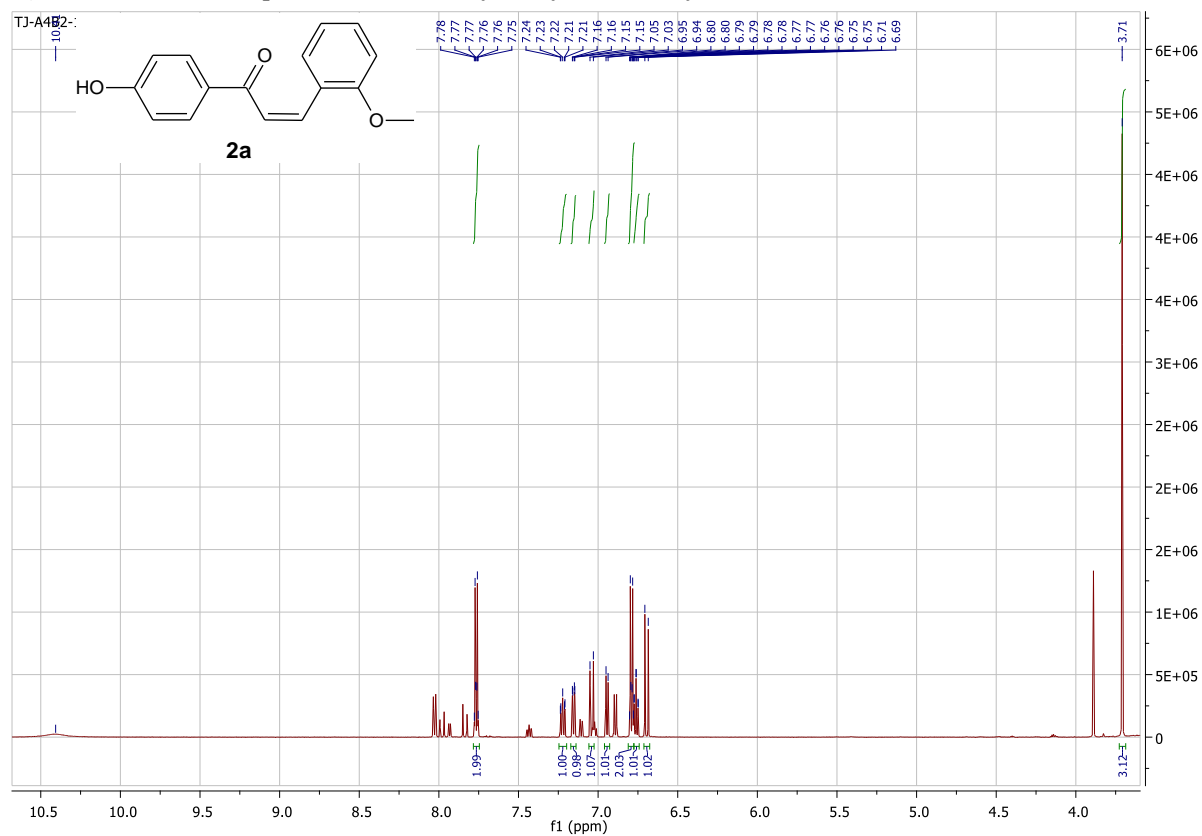


Figure S23. Part of the ^1H NMR spectrum of *cis*-4'-hydroxy-2-methoxychalcone (**2a**) (DMSO- d_6 , 600 MHz)

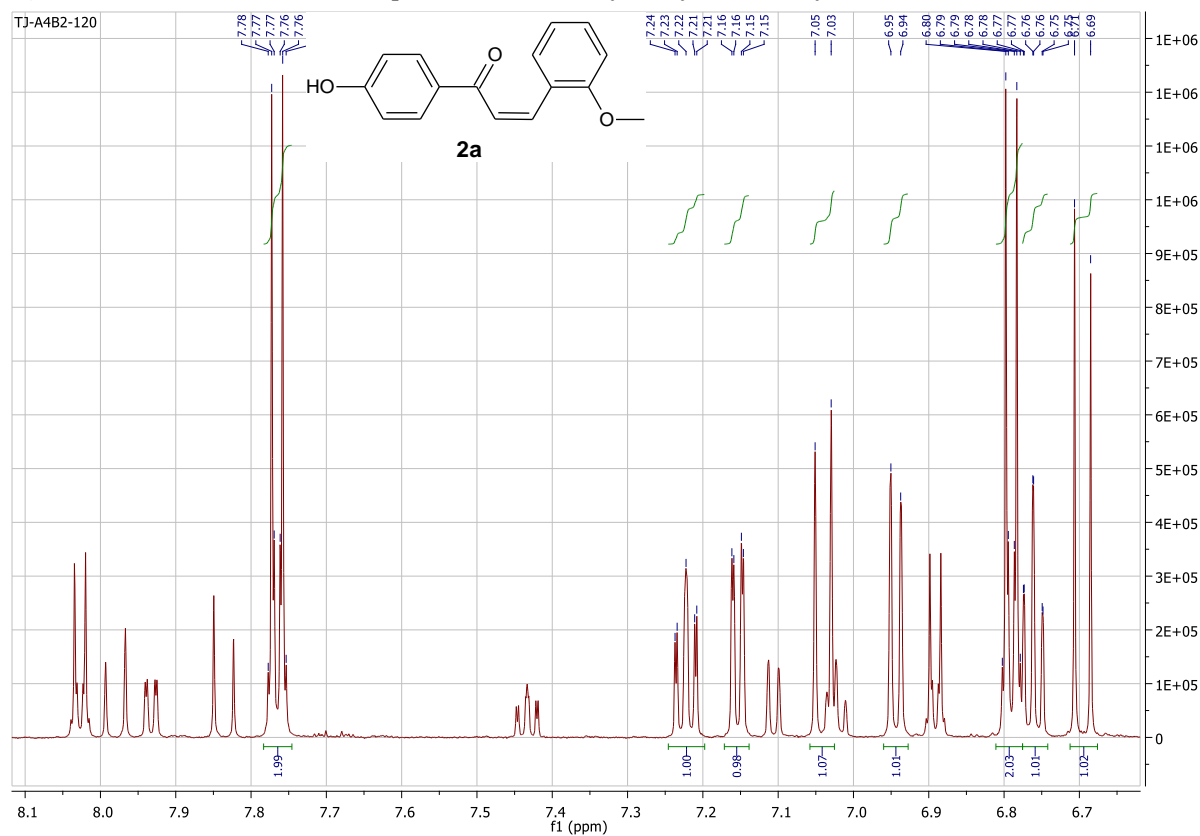


Figure S24. ^{13}C NMR spectrum of *cis*-4'-hydroxy-2-methoxychalcone (**2a**) (DMSO- d_6 , 151 MHz)

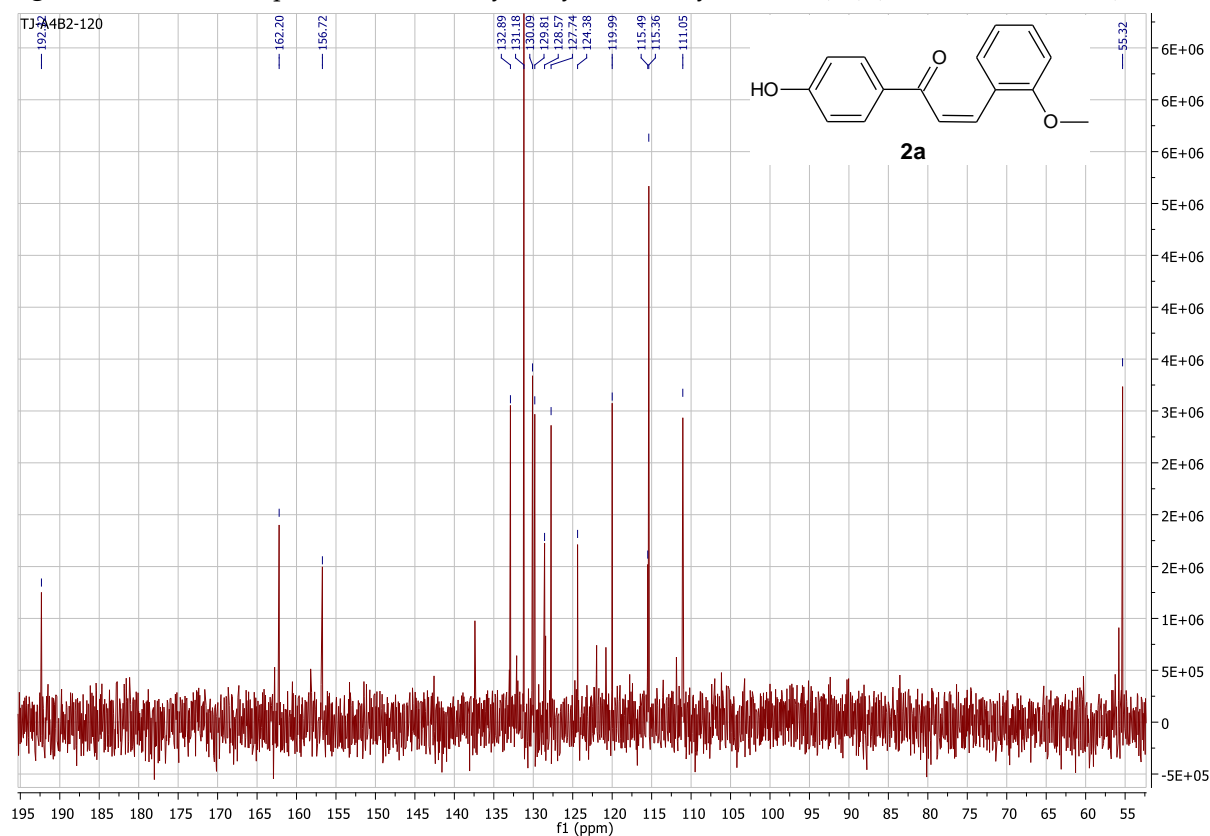


Figure S25. COSY NMR spectrum of *cis*-4'-hydroxy-2-methoxychalcone (**2a**) (DMSO-*d*₆, 600 MHz)

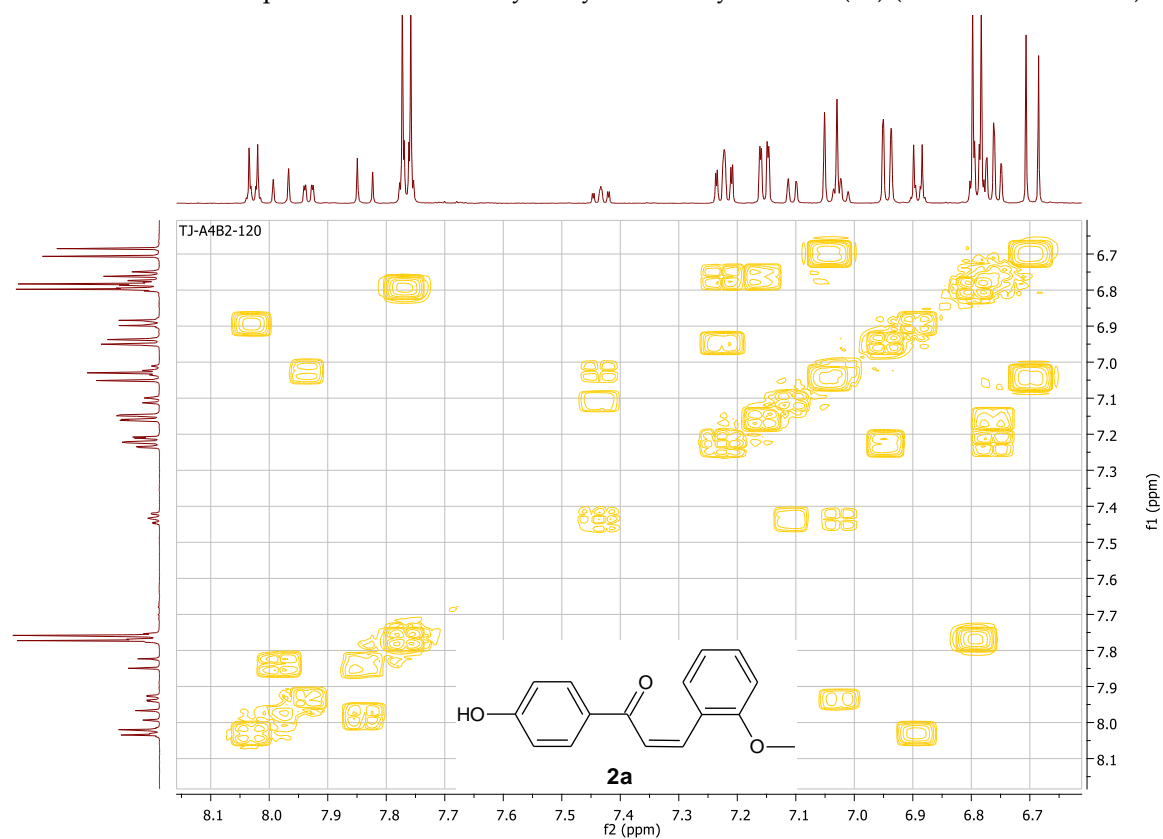


Figure S26. HMQC NMR spectrum of *cis*-4'-hydroxy-2-methoxychalcone (**2a**) (DMSO-*d*₆, 600 MHz)

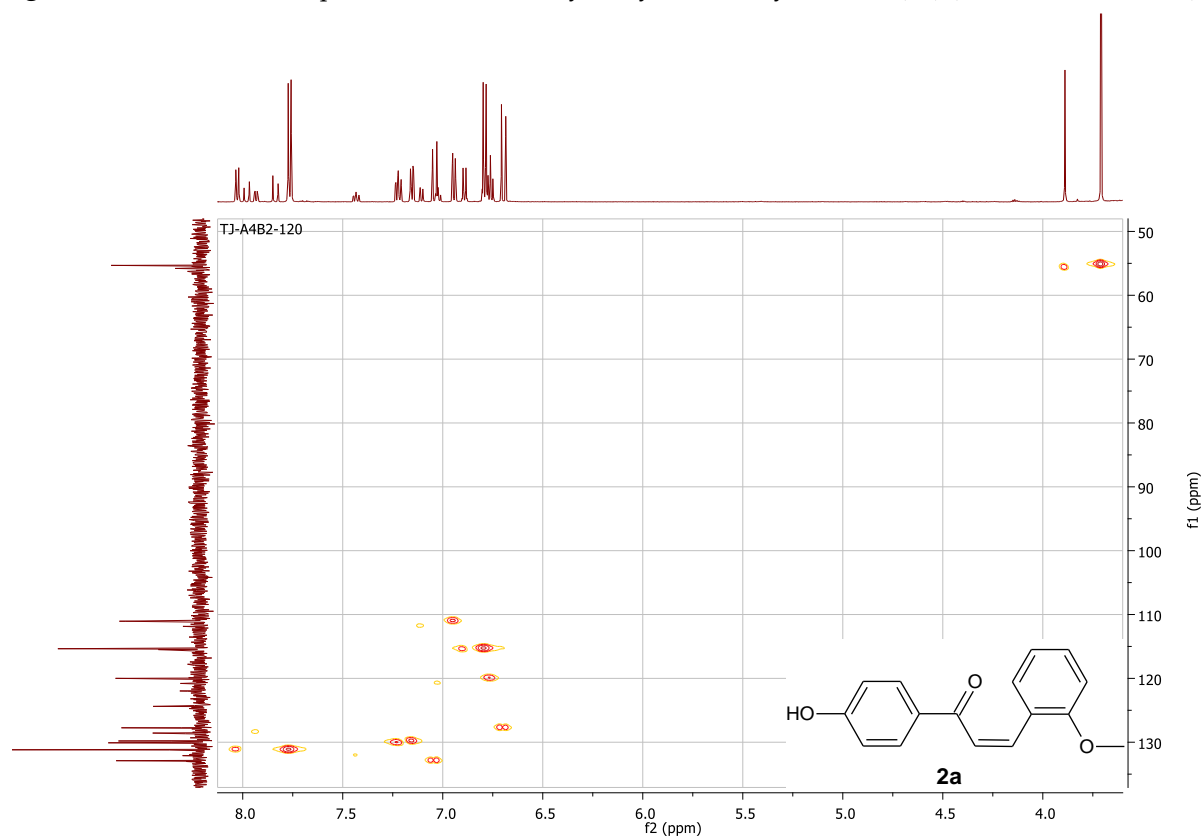


Figure S27. HMBC NMR spectrum of *cis*-4'-hydroxy-2-methoxychalcone (**2a**) (DMSO-*d*₆, 600 MHz)

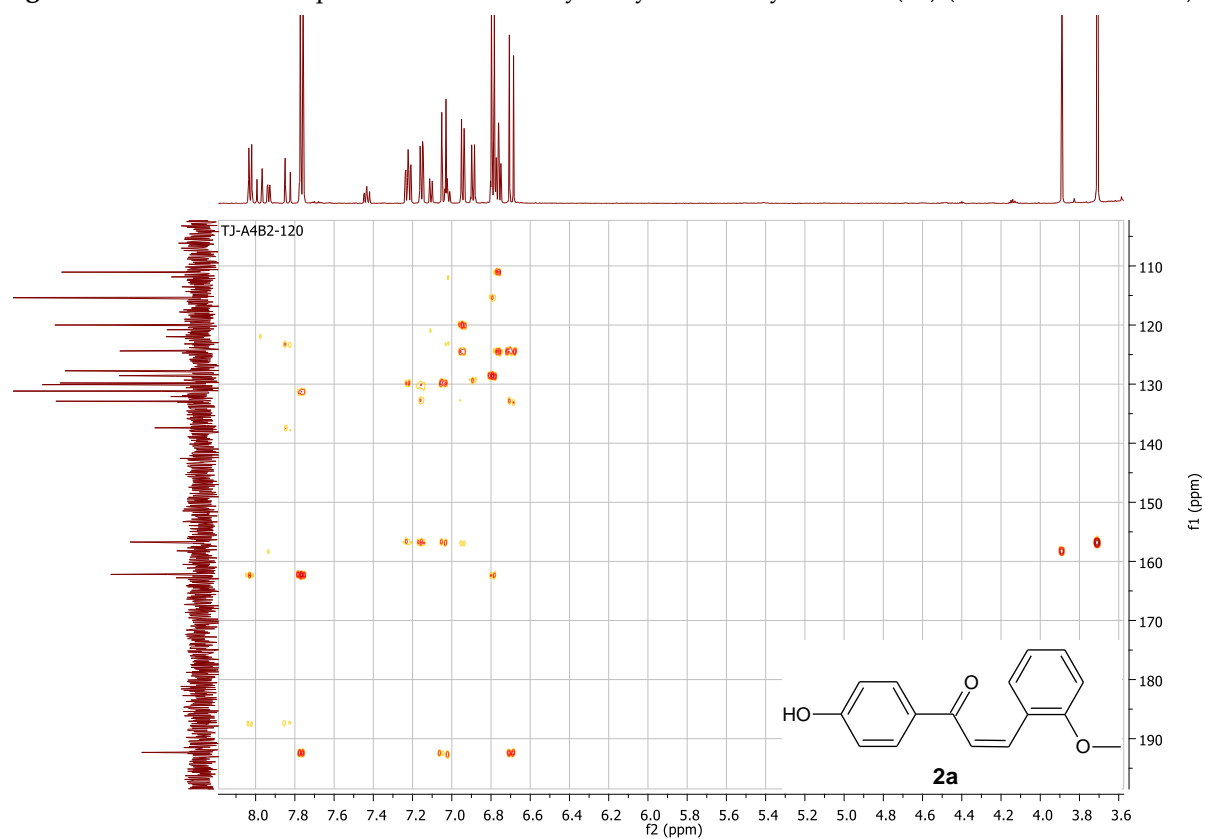


Figure S28. ¹H NMR spectrum of 4'-hydroxy-2-methoxydihydrochalcone (**2b**) (DMSO-*d*₆, 600 MHz)

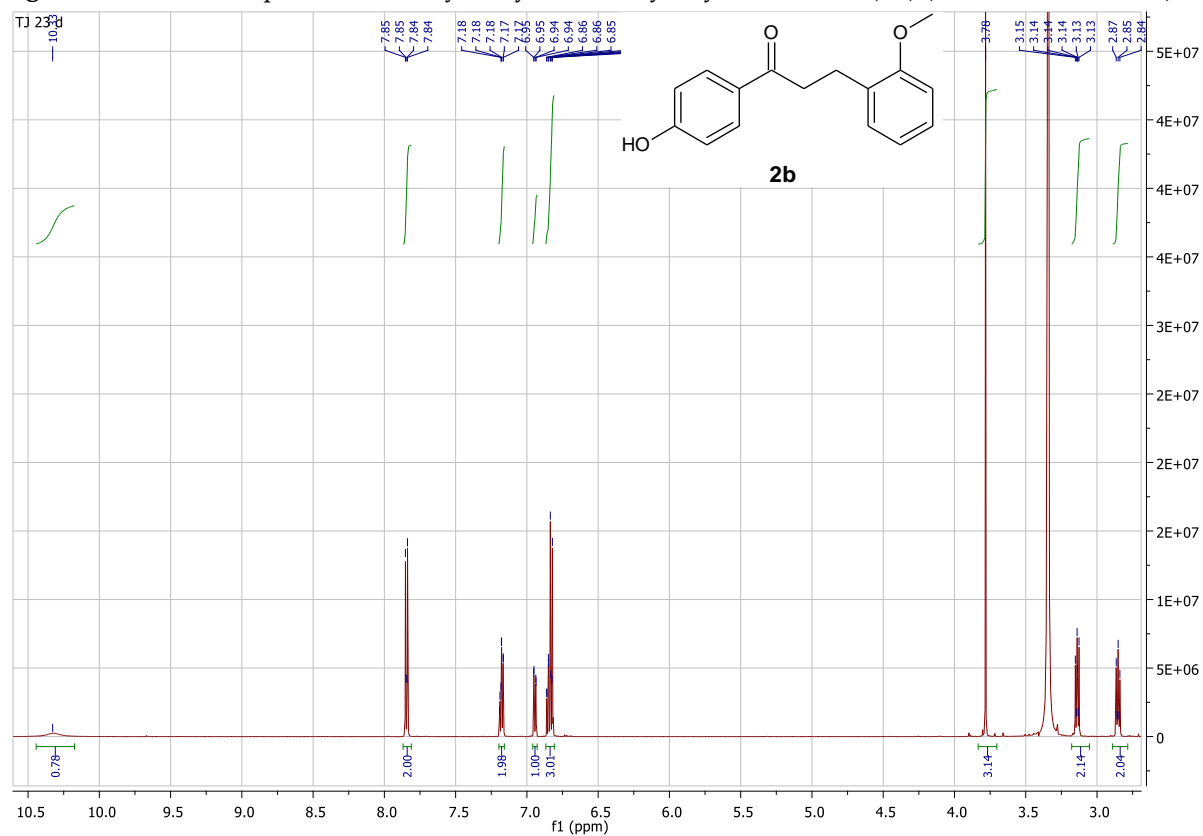


Figure S29. Part of the ^1H NMR spectrum of 4'-hydroxy-2-methoxydihydrochalcone (**2b**) (DMSO- d_6 , 600 MHz)

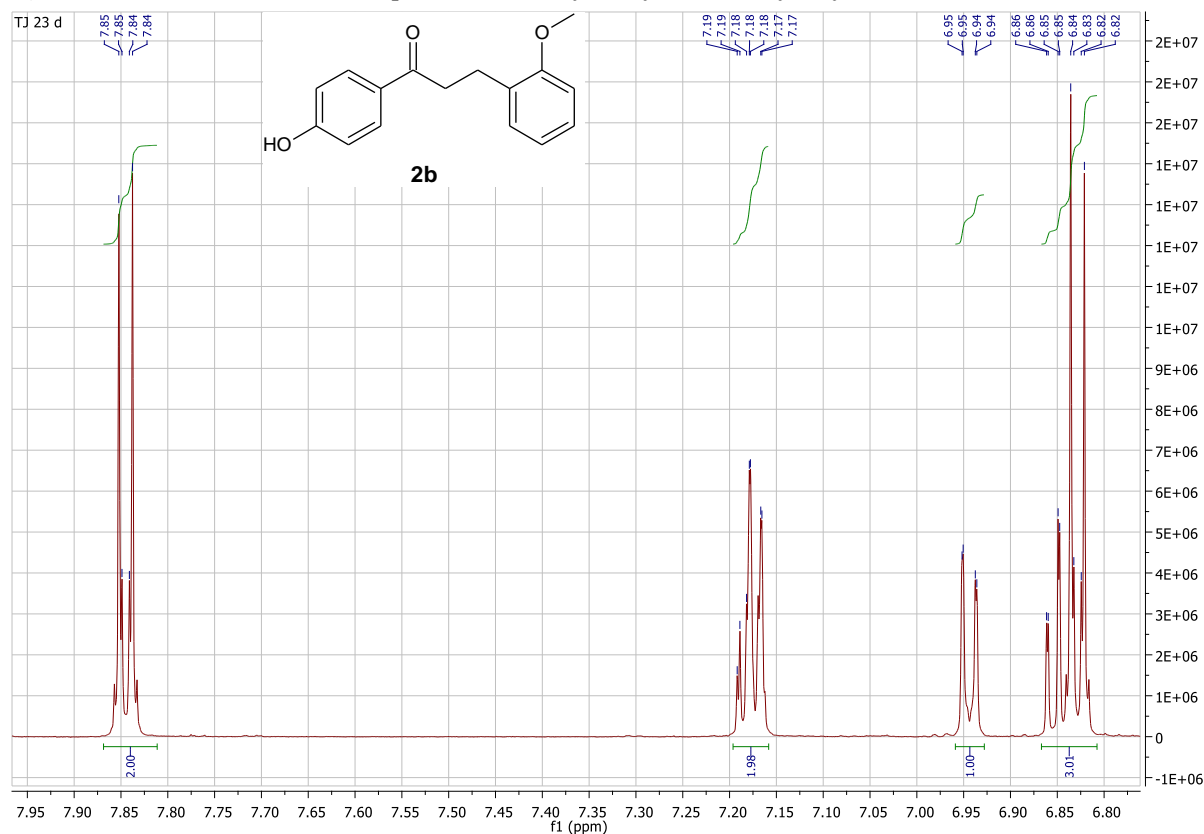


Figure S30. ^{13}C NMR spectrum of 4'-hydroxy-2-methoxydihydrochalcone (**2b**) (DMSO- d_6 , 151 MHz)

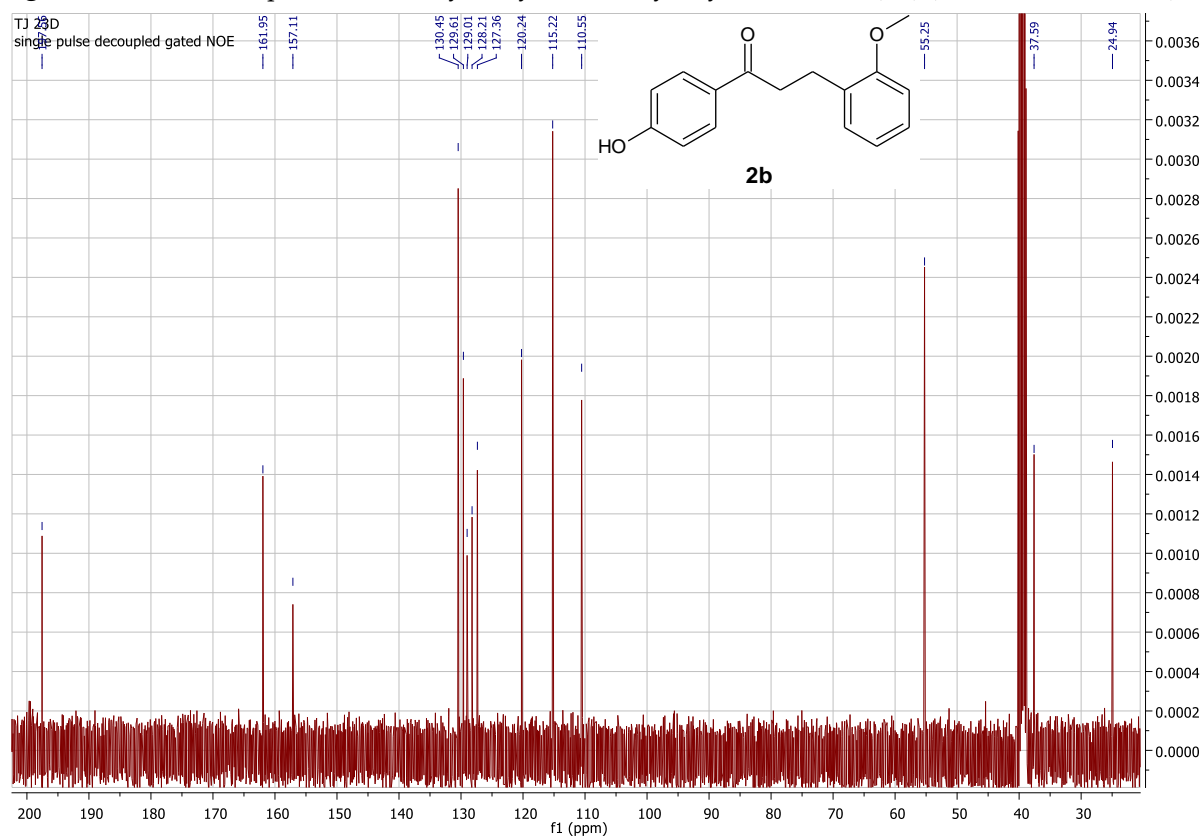


Figure S31. COSY NMR spectrum of of 4'-hydroxy-2-methoxydihydrochalcone (**2b**) (DMSO-*d*₆, 600 MHz)

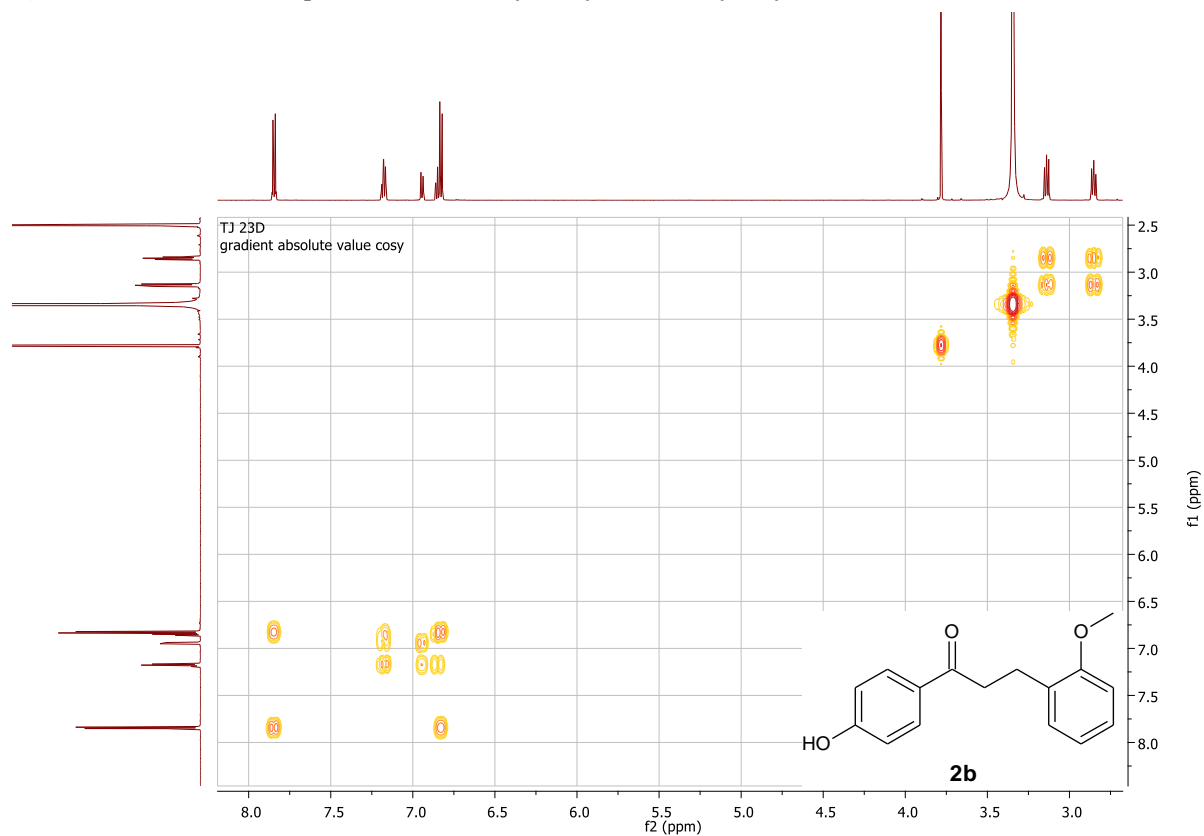


Figure S32. HMQC NMR spectrum of of 4'-hydroxy-2-methoxydihydrochalcone (**2b**) (DMSO-*d*₆, 600 MHz)

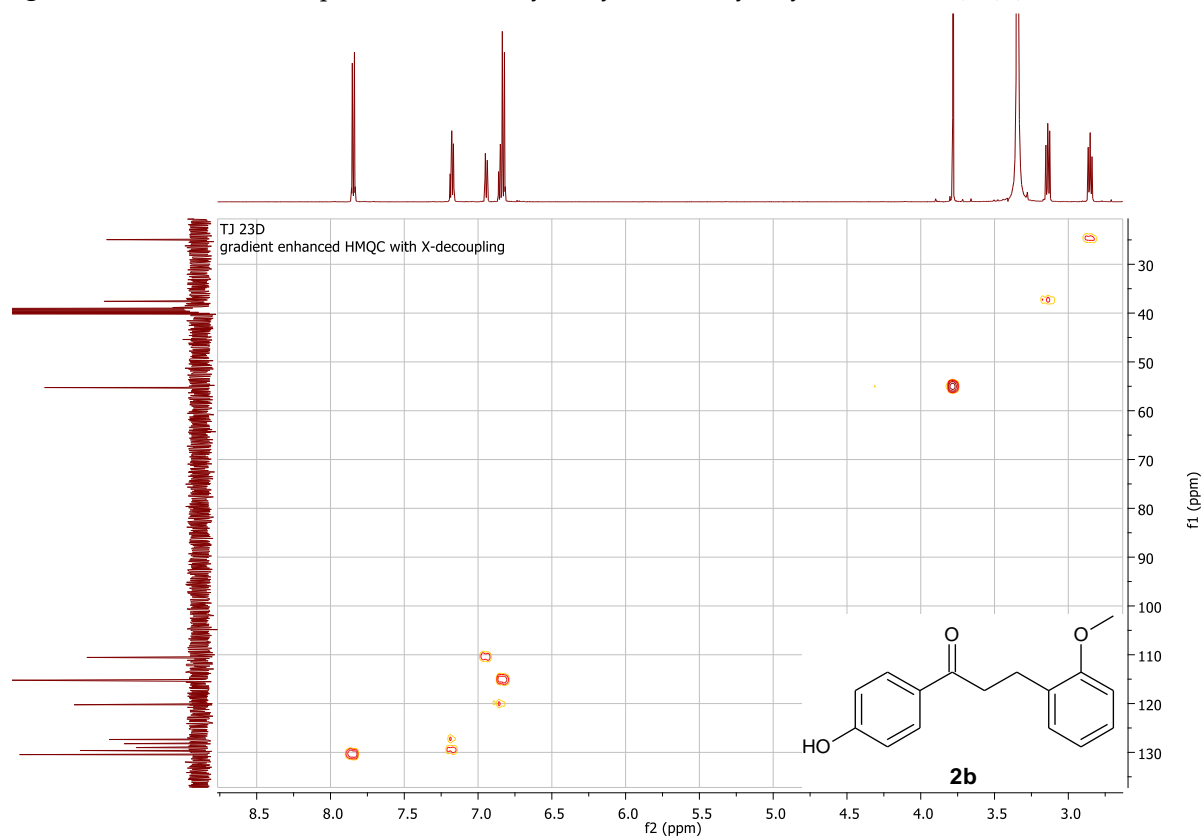


Figure S33. HMBC NMR spectrum of 4'-hydroxy-2-methoxydihydrochalcone (**2b**) (DMSO-*d*₆, 600 MHz)

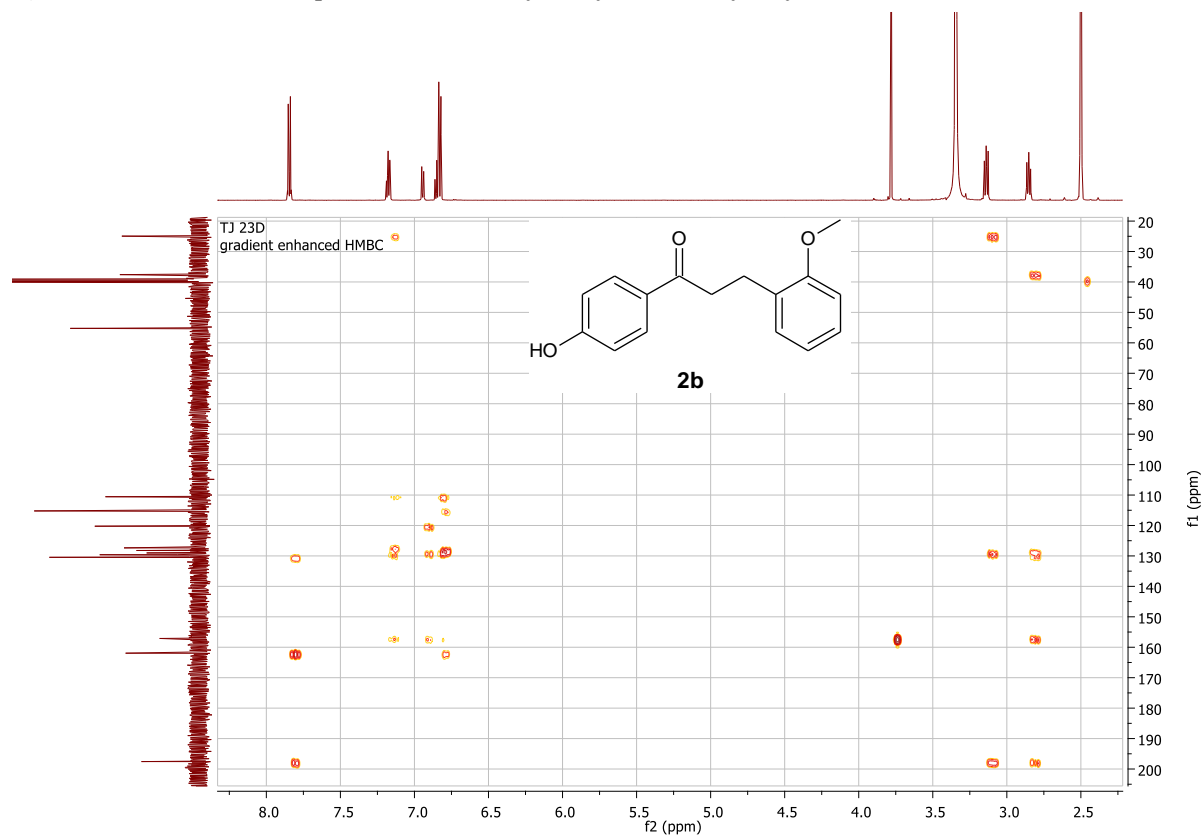


Figure S34. ¹H NMR spectrum of *trans*-4'-hydroxy-3-methoxychalcone (**3**) (DMSO-*d*₆, 600 MHz)

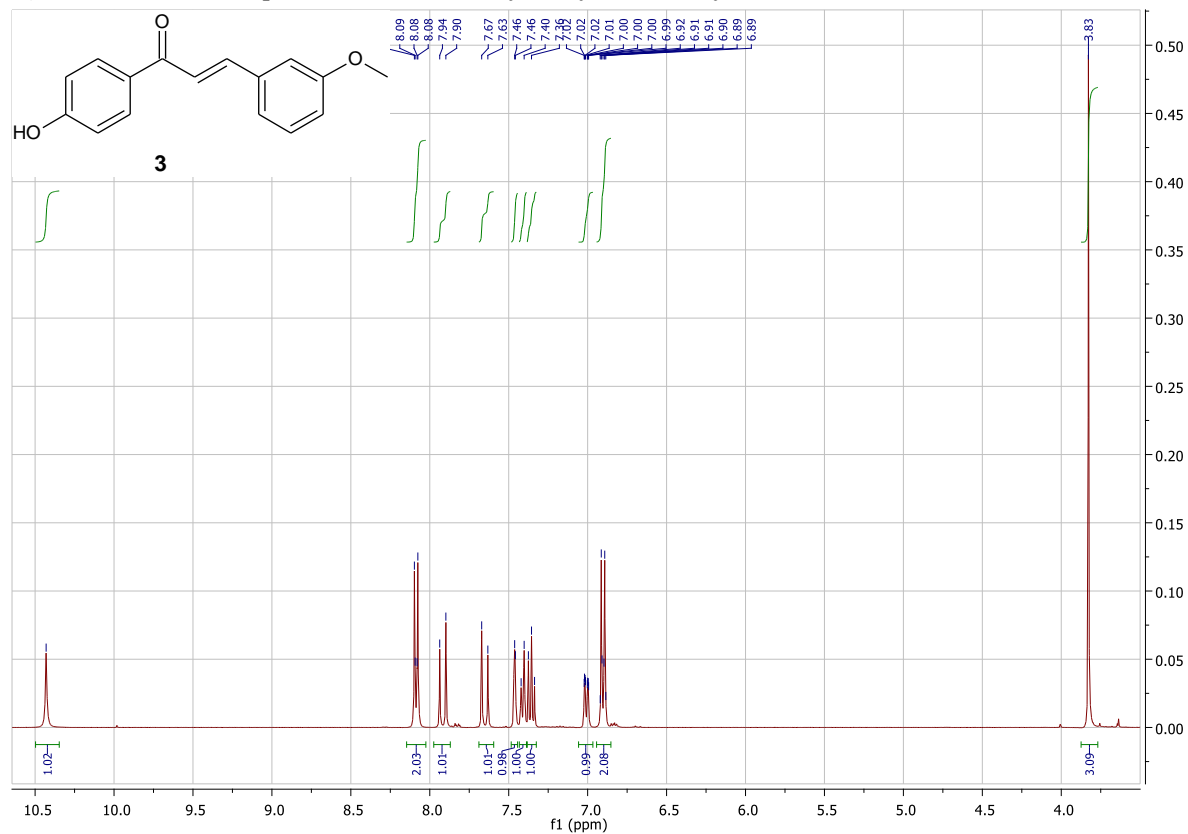


Figure S35. Part of the ^1H NMR spectrum of *trans*-4'-hydroxy-3-methoxychalcone (**3**) (DMSO- d_6 , 600 MHz)

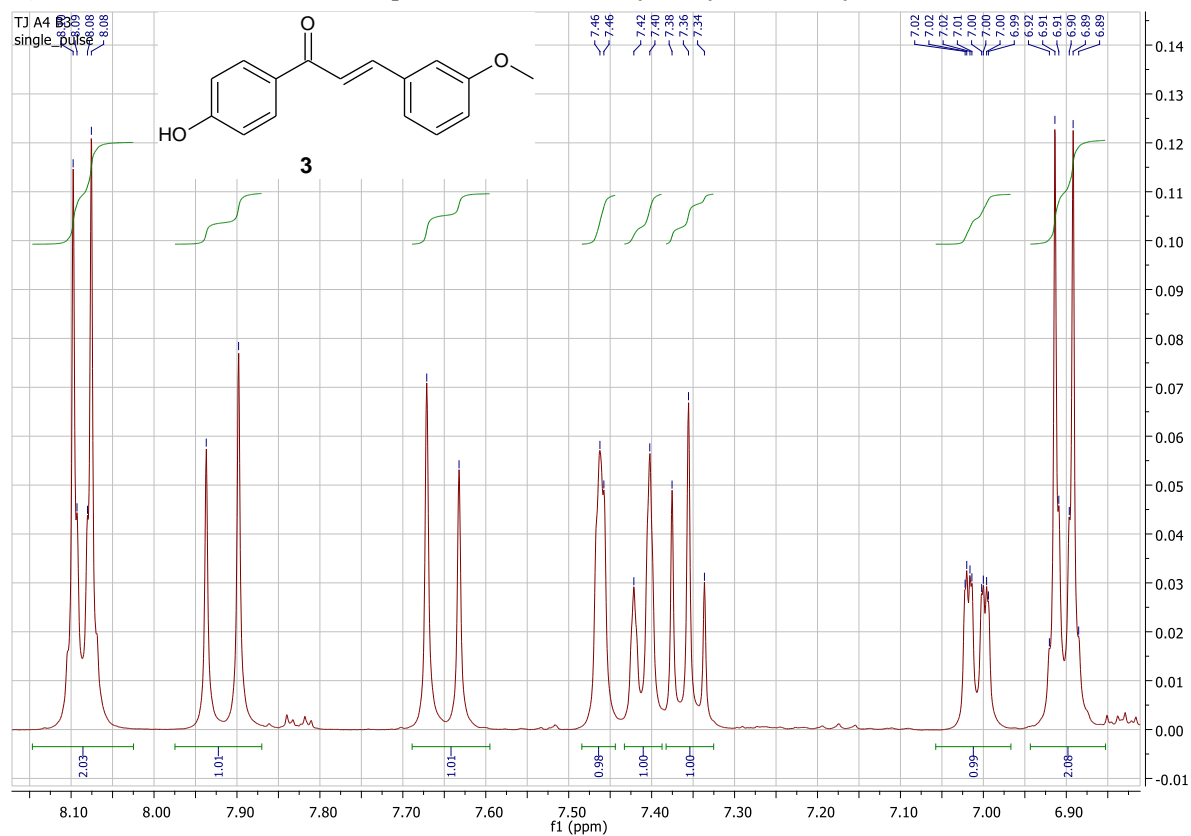


Figure S36. ^{13}C NMR spectrum of *trans*-4'-hydroxy-3-methoxychalcone (**3**) (DMSO- d_6 , 151 MHz)

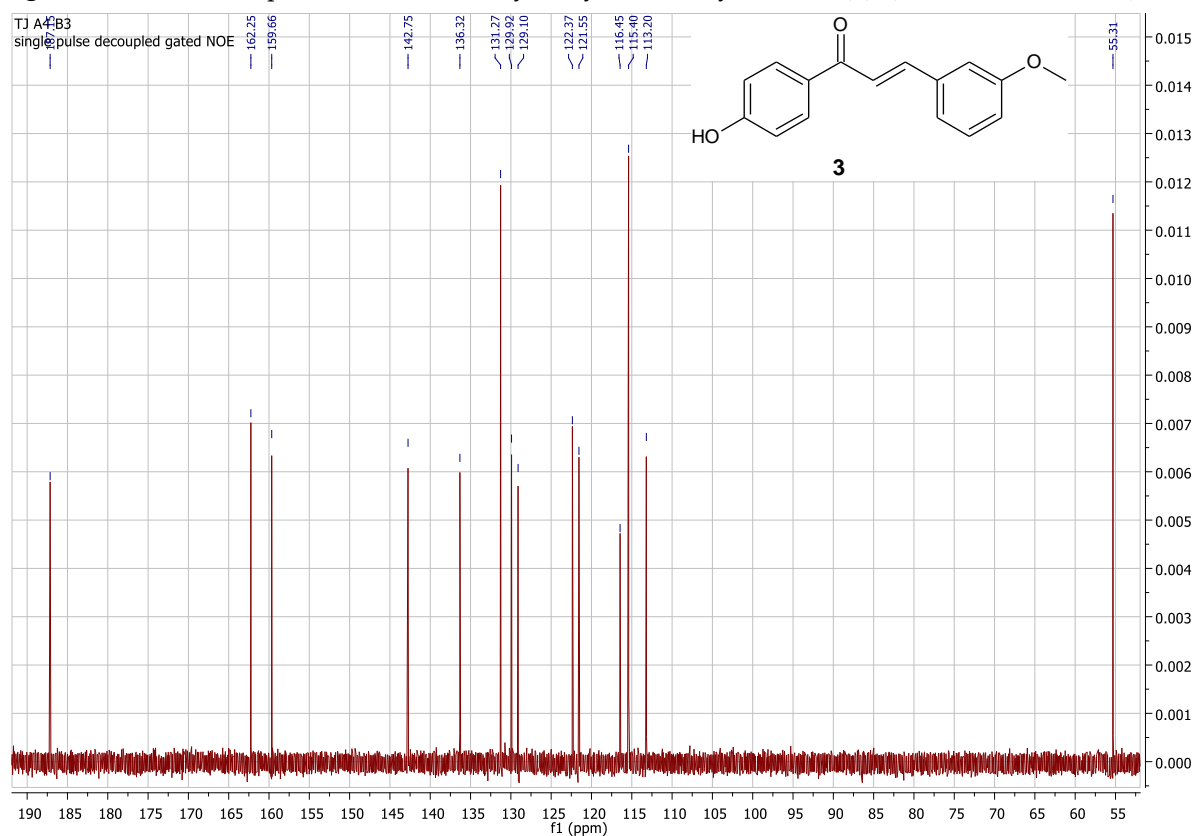


Figure S37. COSY NMR spectrum of of *trans*-4'-hydroxy-3-methoxychalcone (**3**) (DMSO-*d*₆, 600 MHz)

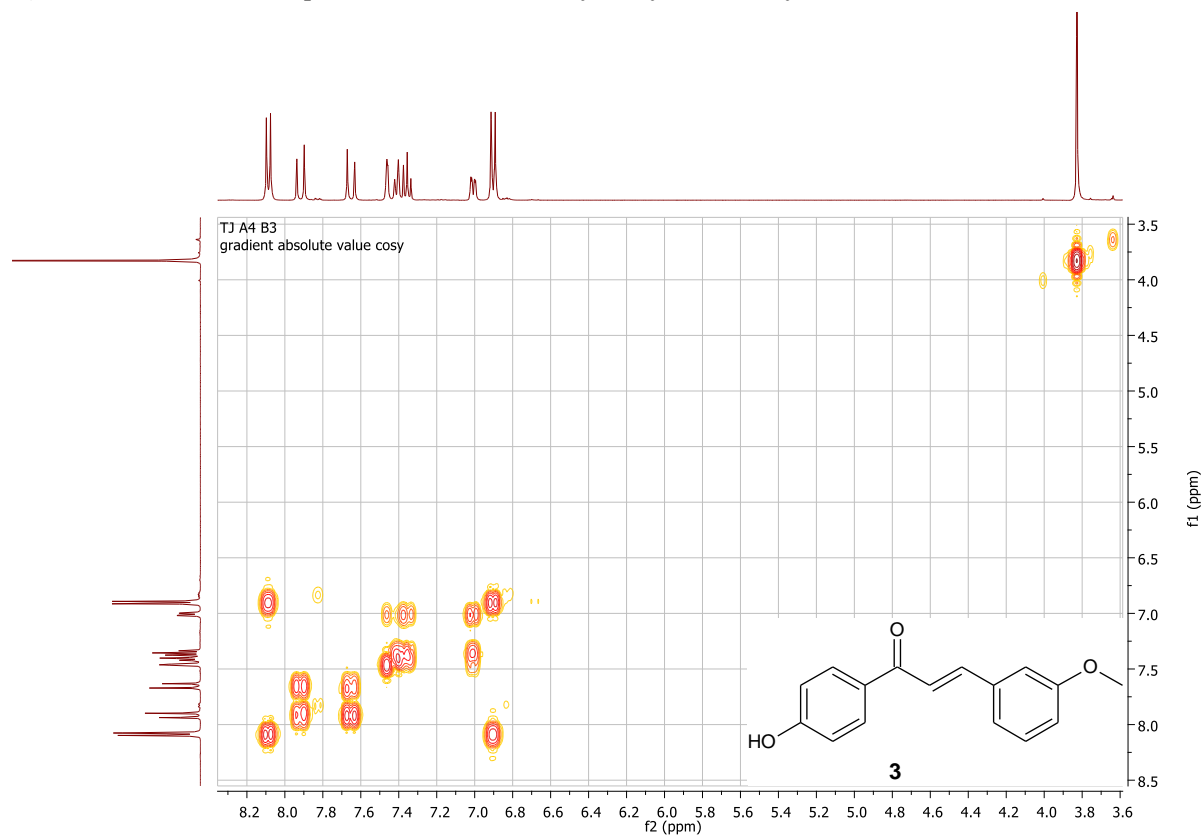


Figure S38. HMQC NMR spectrum of of *trans*-4'-hydroxy-3-methoxychalcone (**3**) (DMSO-*d*₆, 600 MHz)

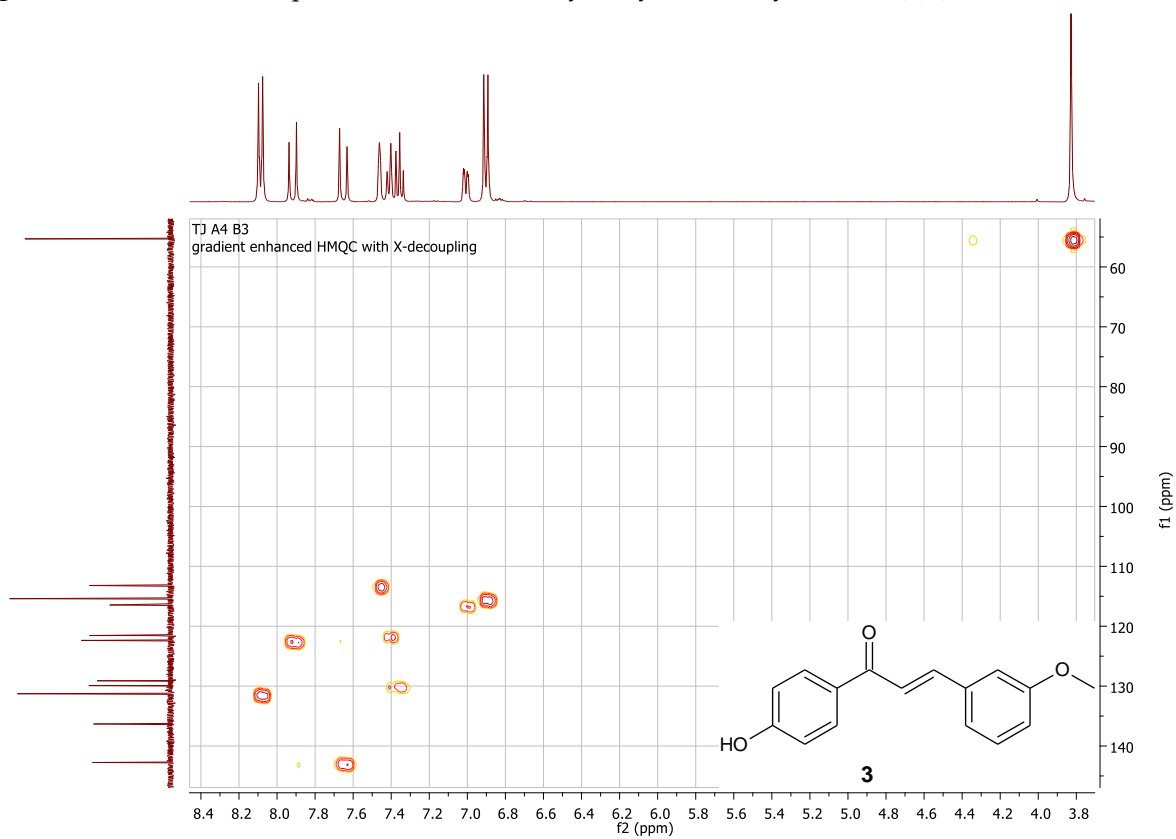


Figure S39. HMBC NMR spectrum of *trans*-4'-hydroxy-3-methoxychalcone (**3**) (DMSO-*d*₆, 600 MHz)

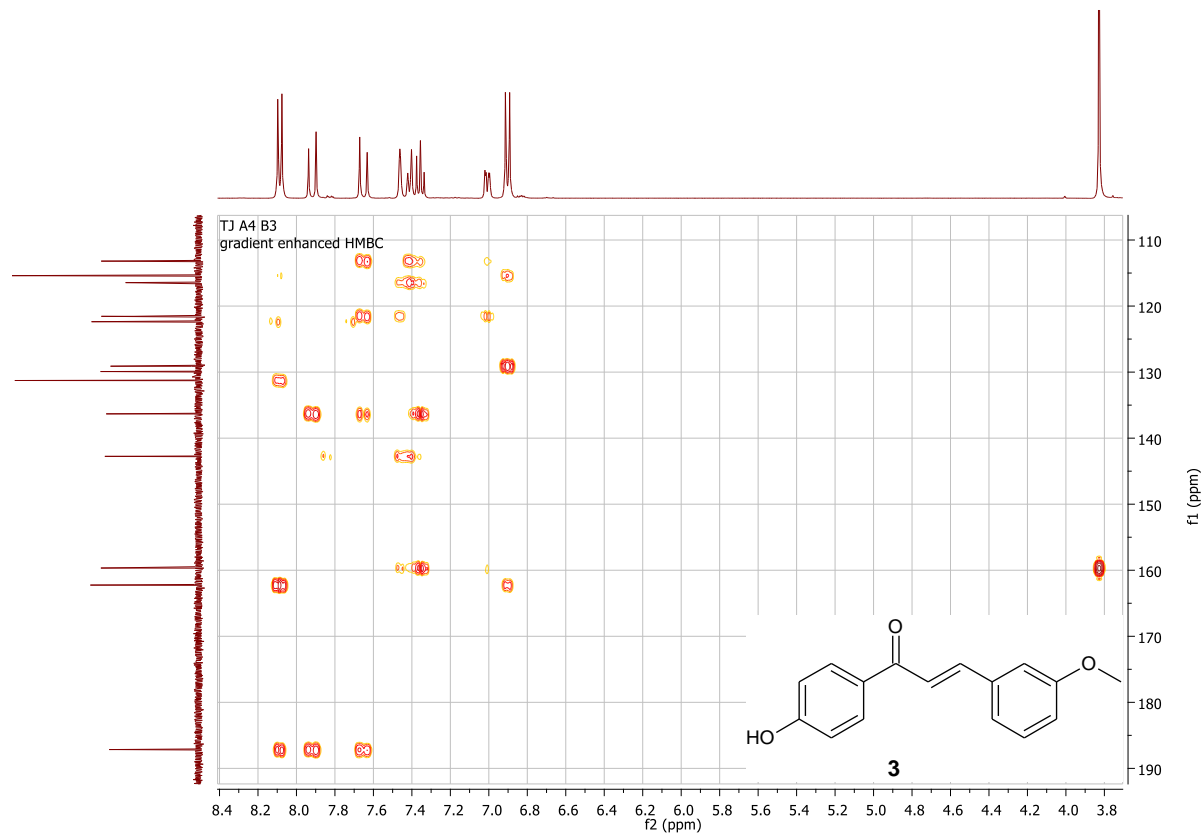


Figure S40. ¹H NMR spectrum of *cis*-4'-hydroxy-3-methoxychalcone (**3a**) (DMSO-*d*₆, 600 MHz)

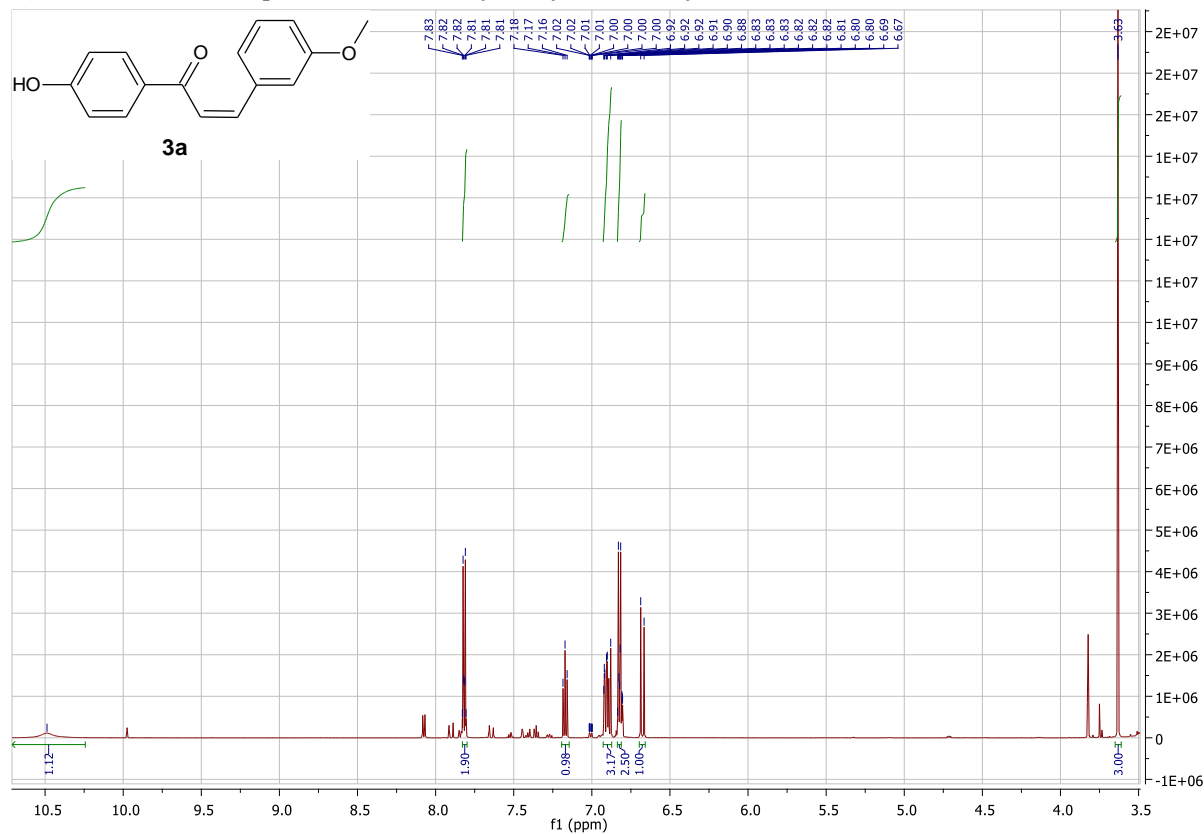


Figure S41. Part of the ^1H NMR spectrum of *cis*-4'-hydroxy-3-methoxychalcone (**3a**) (DMSO- d_6 , 600 MHz)

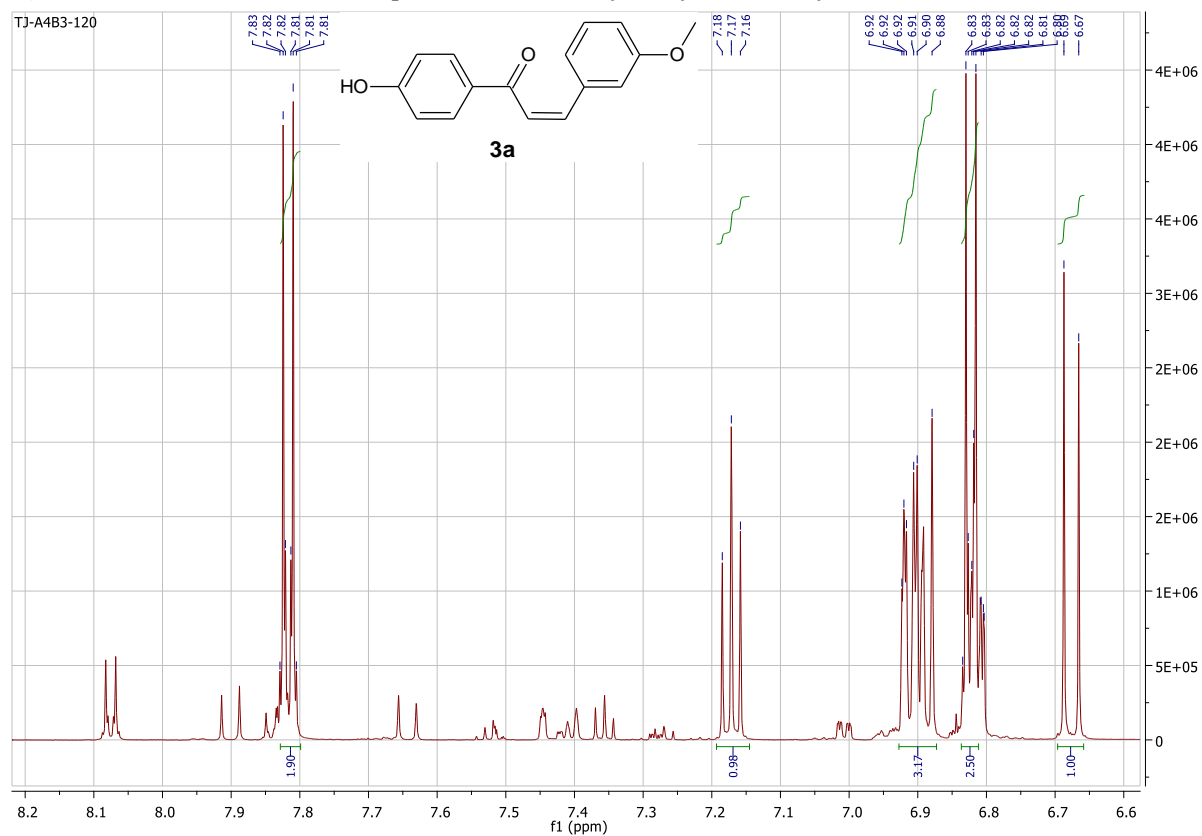


Figure S42. ^{13}C NMR spectrum of *cis*-4'-hydroxy-3-methoxychalcone (**3a**) (DMSO- d_6 , 151 MHz)

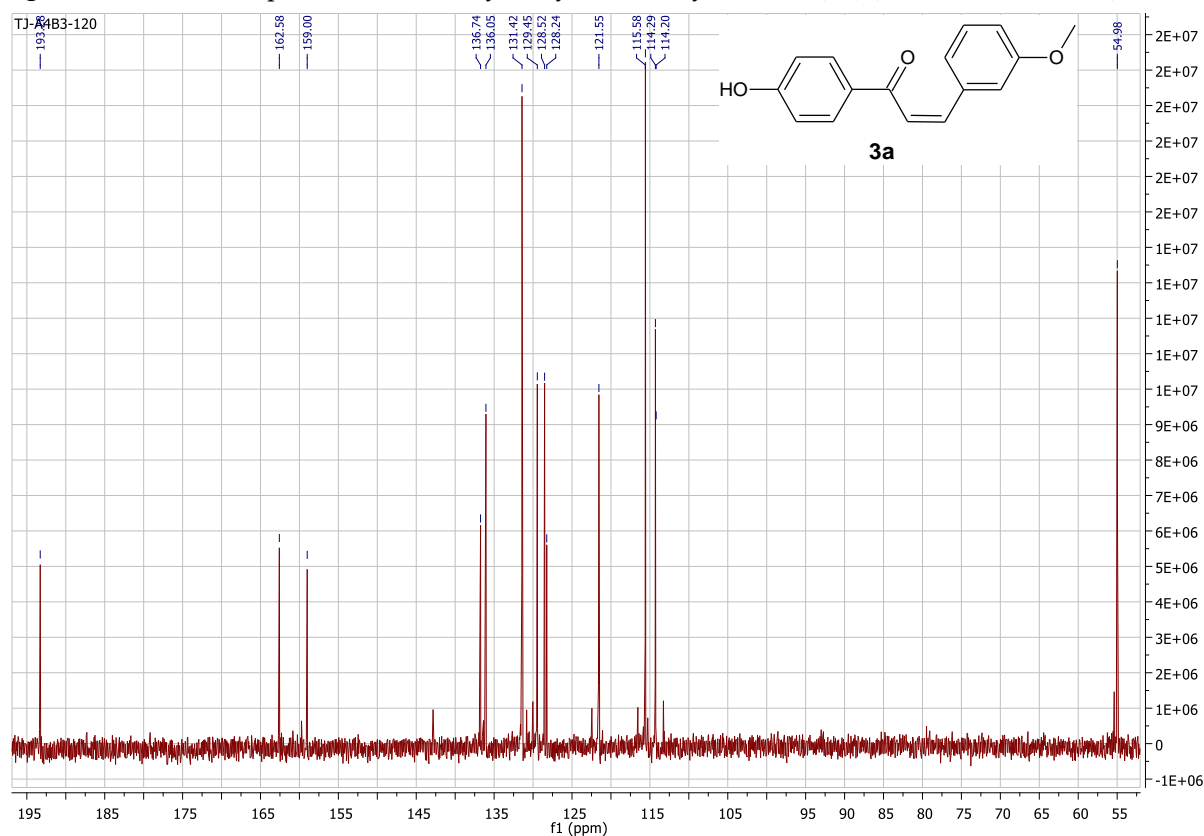


Figure S43. COSY NMR spectrum of *cis*-4'-hydroxy-3-methoxychalcone (**3a**) (DMSO-*d*₆, 600 MHz)

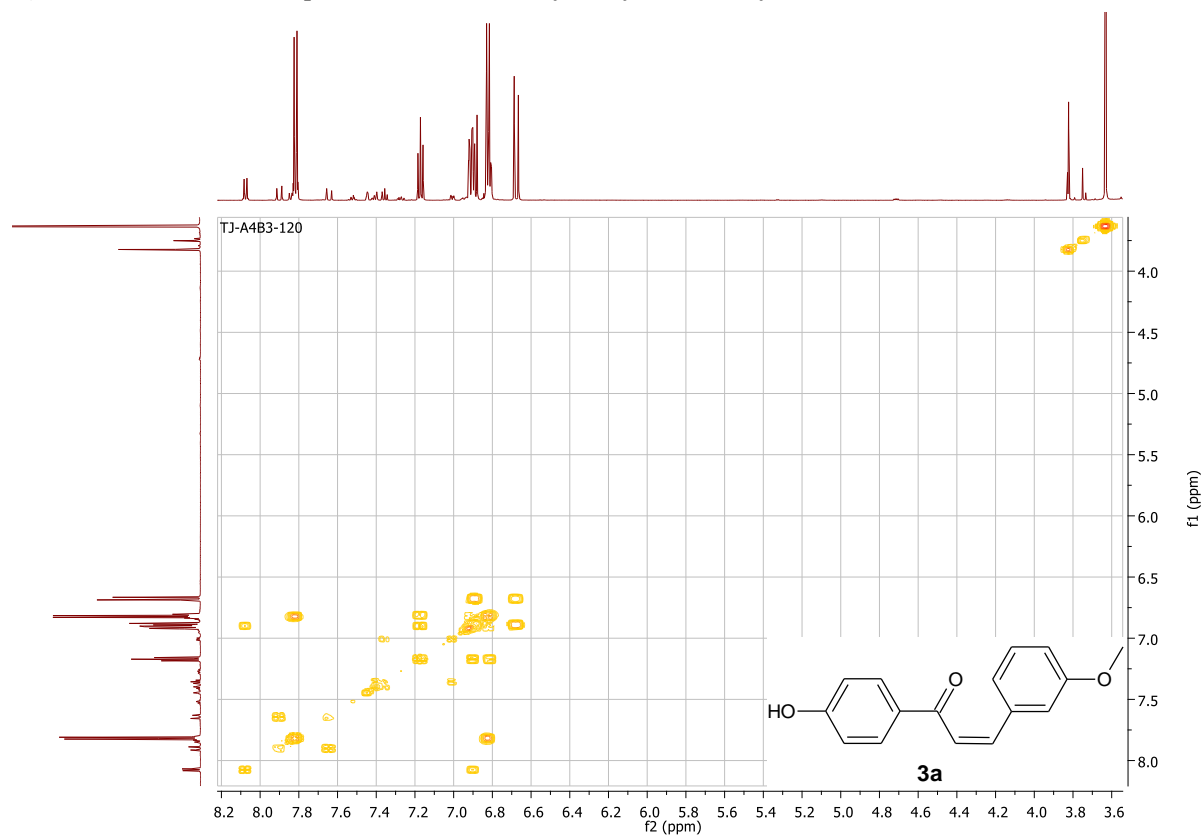


Figure S44. HMQC NMR spectrum of *cis*-4'-hydroxy-3-methoxychalcone (**3a**) (DMSO-*d*₆, 600 MHz)

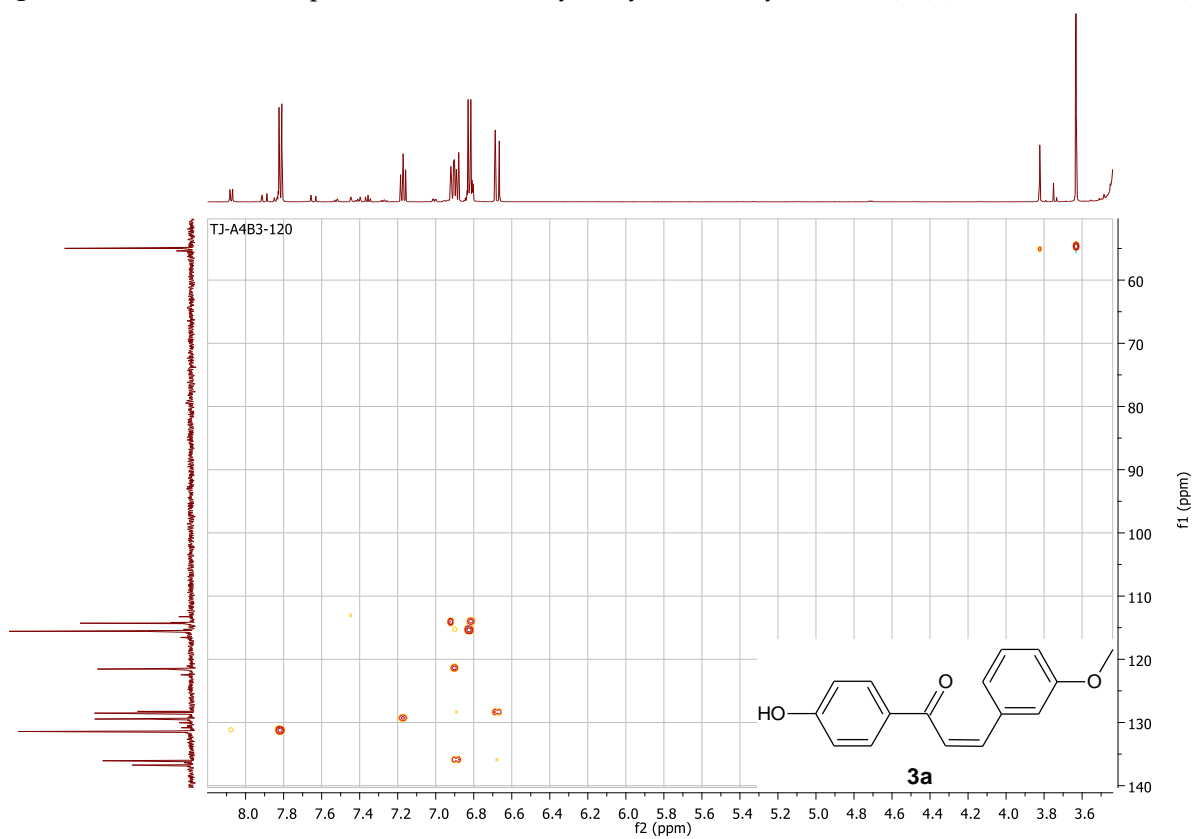


Figure S45. HMBC NMR spectrum of *cis*-4'-hydroxy-3-methoxychalcone (**3a**) (DMSO-*d*₆, 600 MHz)

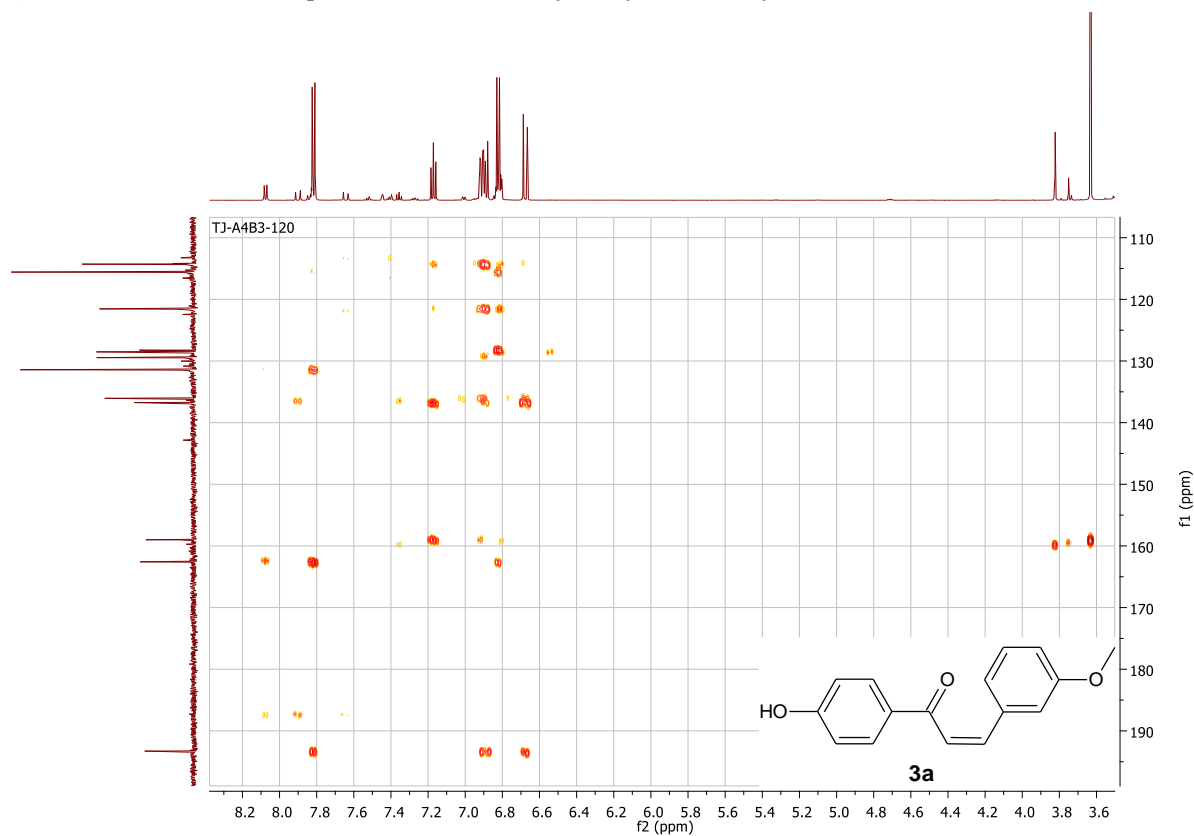


Figure S46. ¹H NMR spectrum of 4'-hydroxy-3-methoxydihydrochalcone (**3b**) (DMSO-*d*₆, 600 MHz)

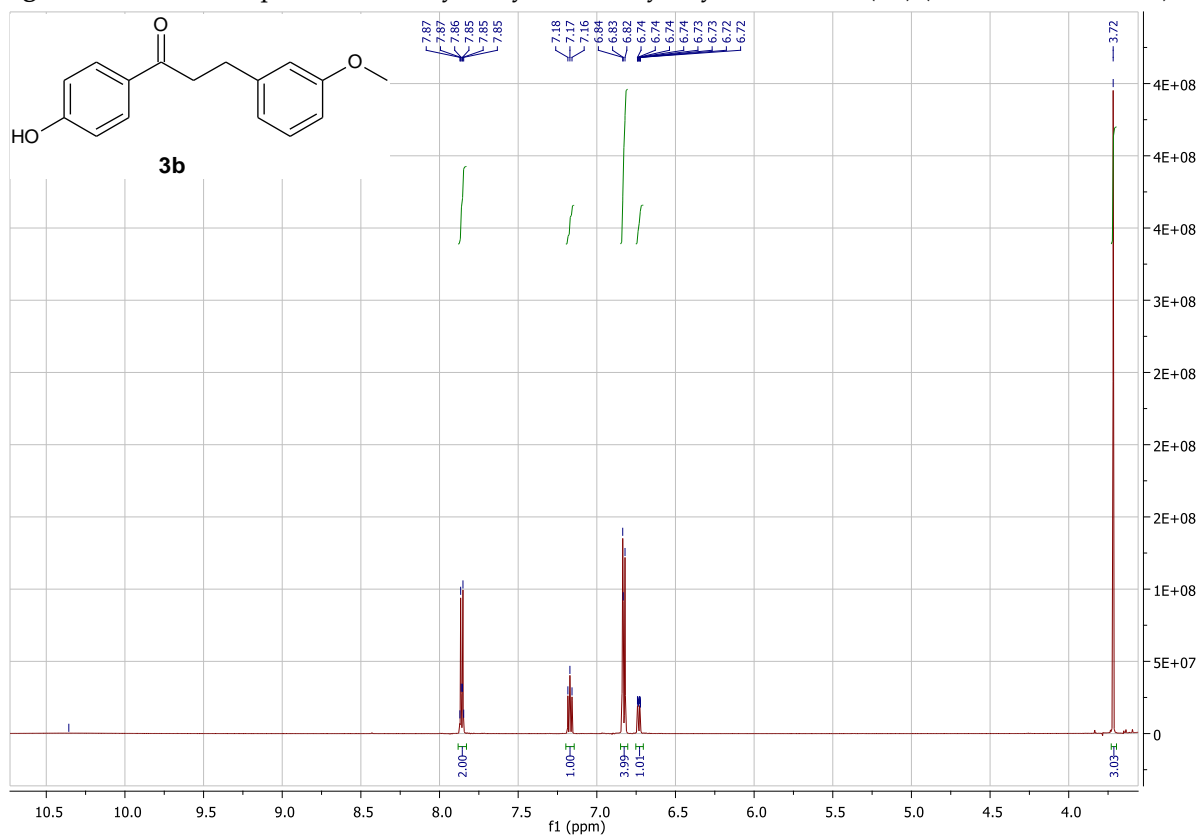


Figure S47. Part of the ^1H NMR spectrum of 4'-hydroxy-3-methoxydihydrochalcone (**3b**) ($\text{DMSO}-d_6$, 600 MHz)

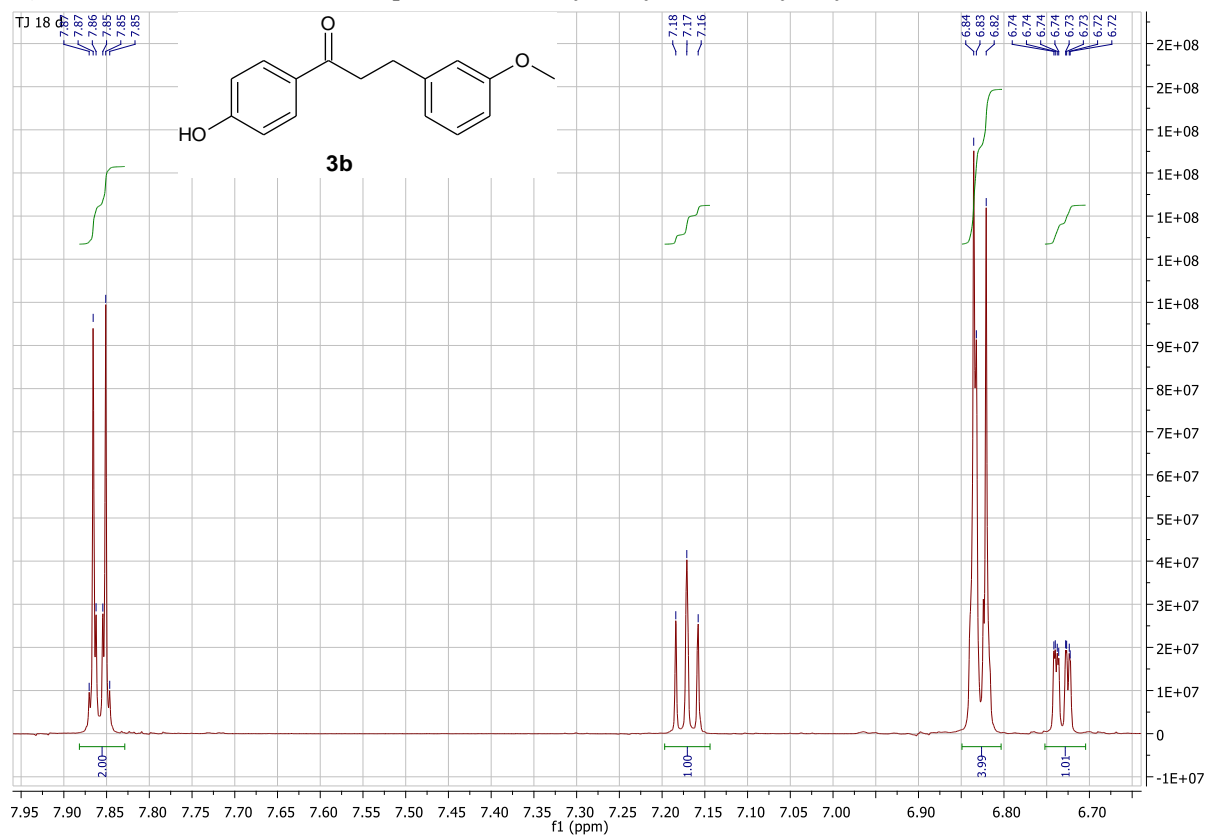


Figure S48. Part of the ^1H NMR spectrum of 4'-hydroxy-3-methoxydihydrochalcone (**3b**) (CDCl_3 , 600 MHz)

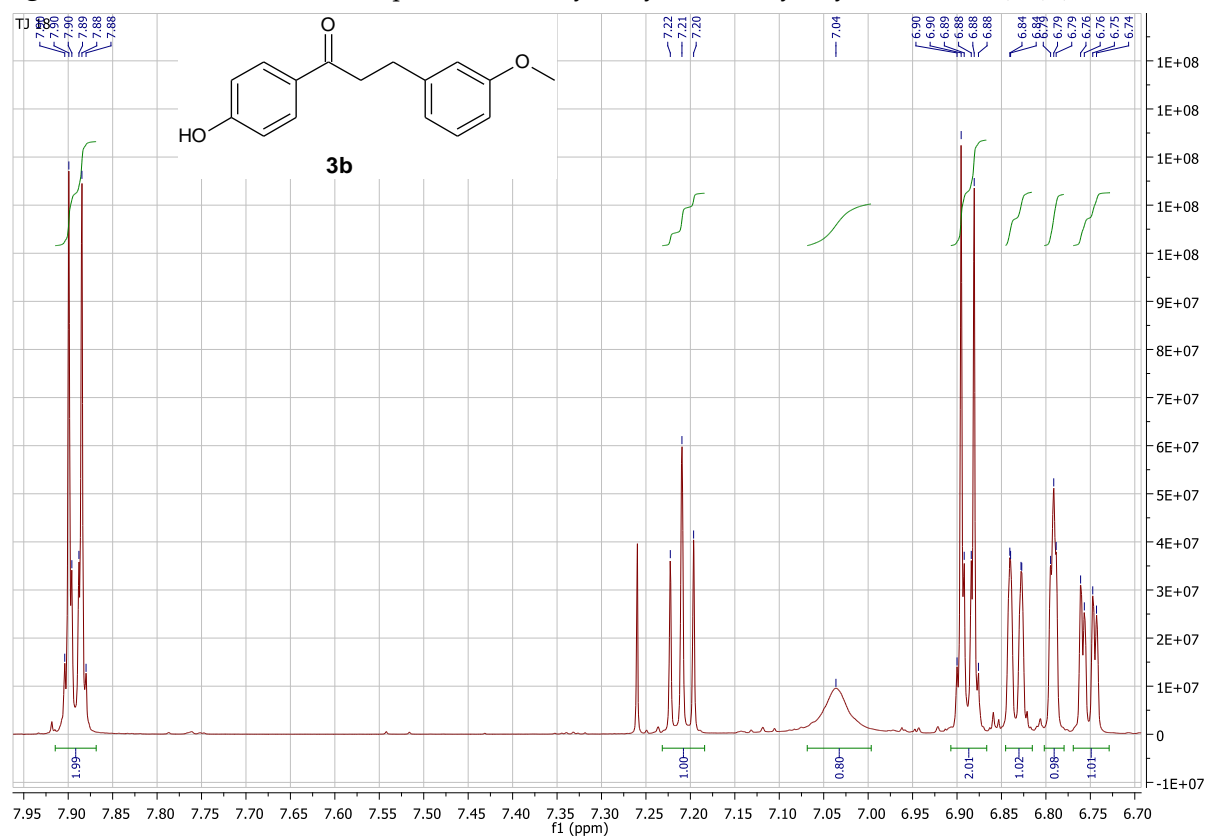


Figure S49. ^{13}C NMR spectrum of 4'-hydroxy-3-methoxydihydrochalcone (**3b**) ($\text{DMSO-}d_6$, 151 MHz)

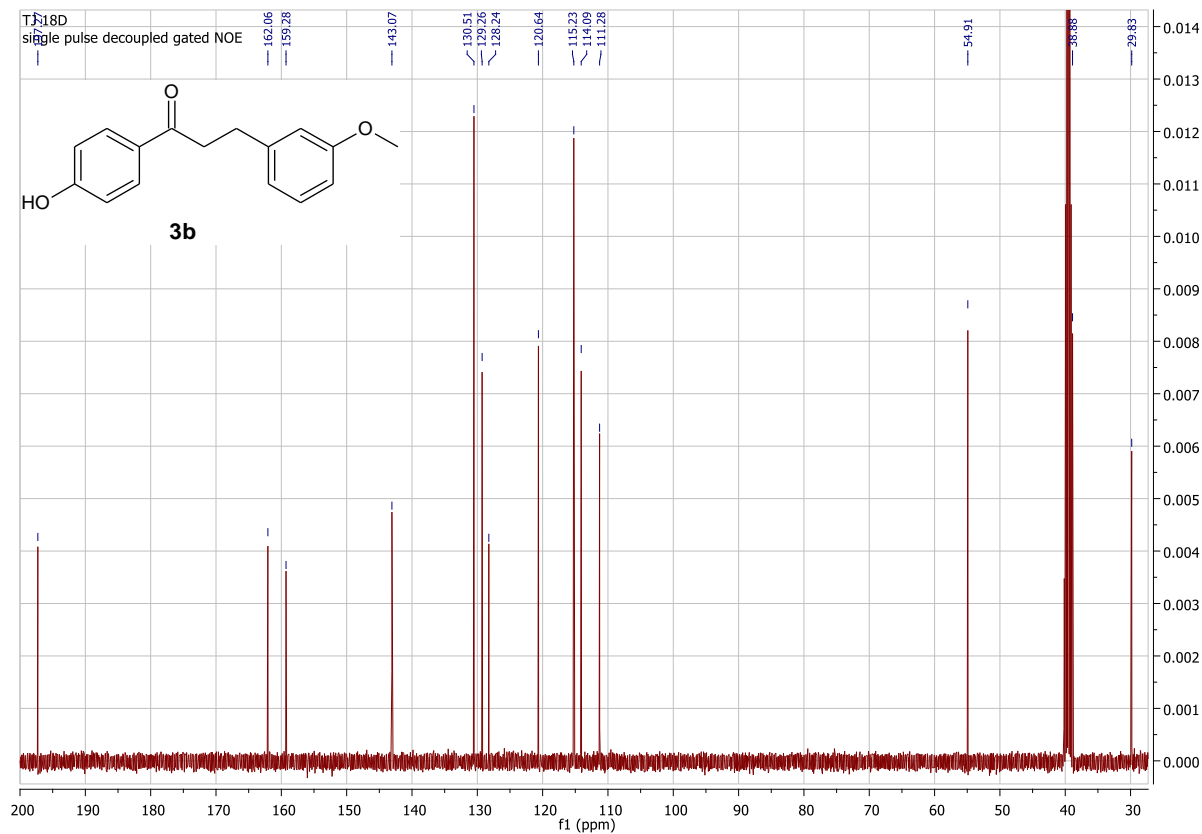


Figure S50. ^{13}C NMR spectrum of 4'-hydroxy-3-methoxydihydrochalcone (**3b**) (CDCl_3 , 151 MHz)

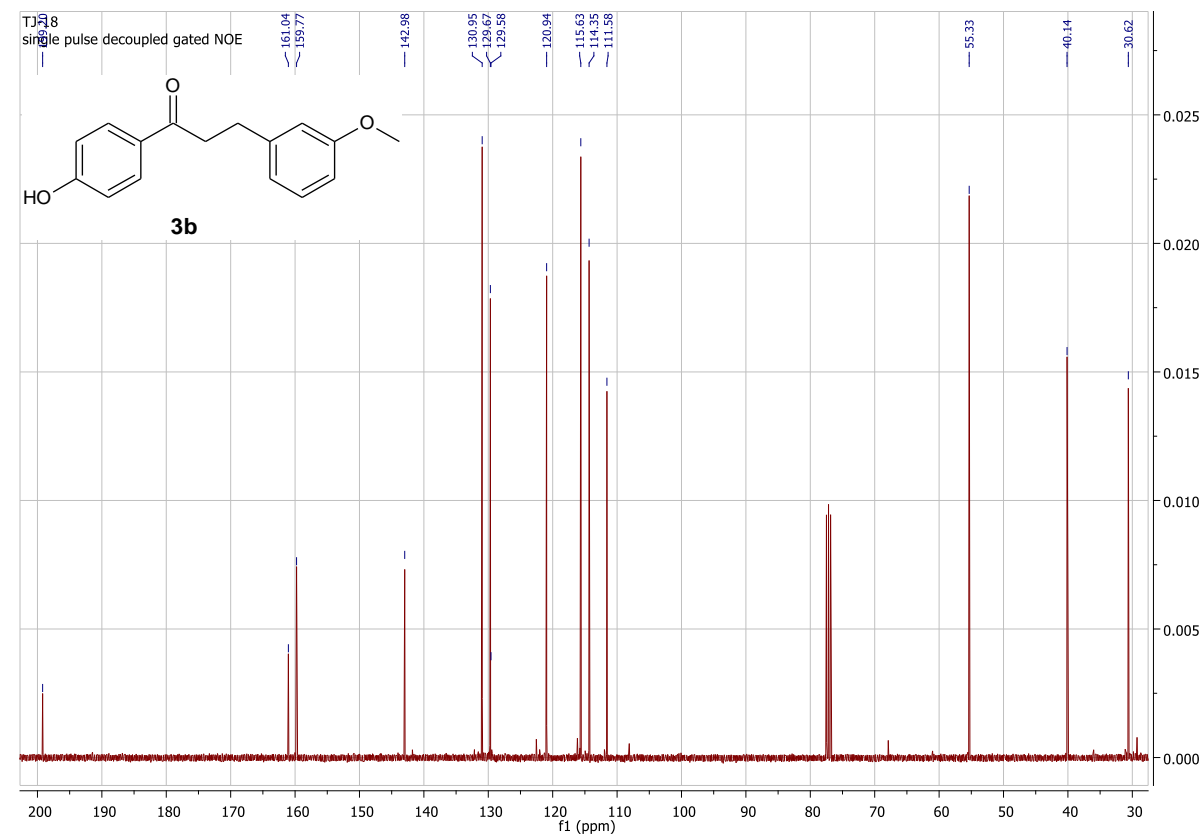


Figure S51. COSY NMR spectrum of 4'-hydroxy-3-methoxydihydrochalcone (**3b**) (DMSO-*d*₆, 600 MHz)

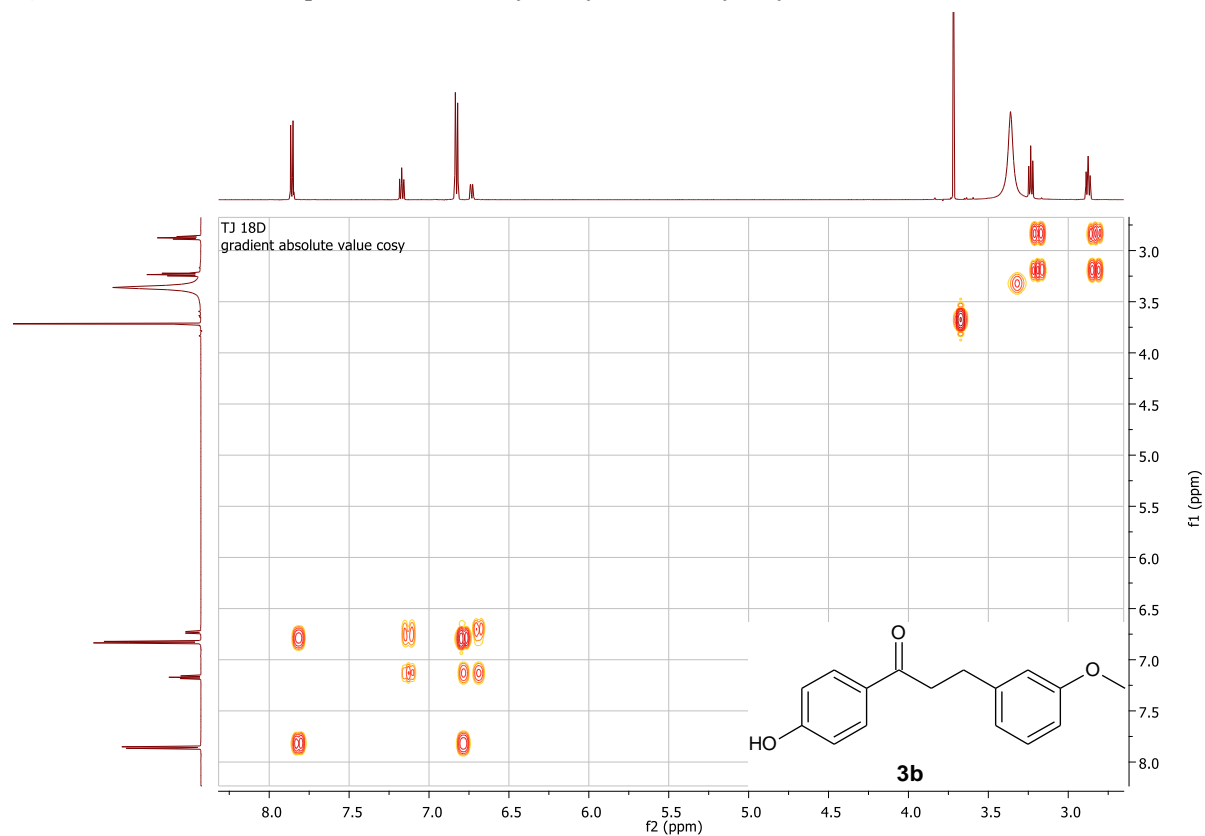


Figure S52. HMQC NMR spectrum of 4'-hydroxy-3-methoxydihydrochalcone (**3b**) (DMSO-*d*₆, 600 MHz)

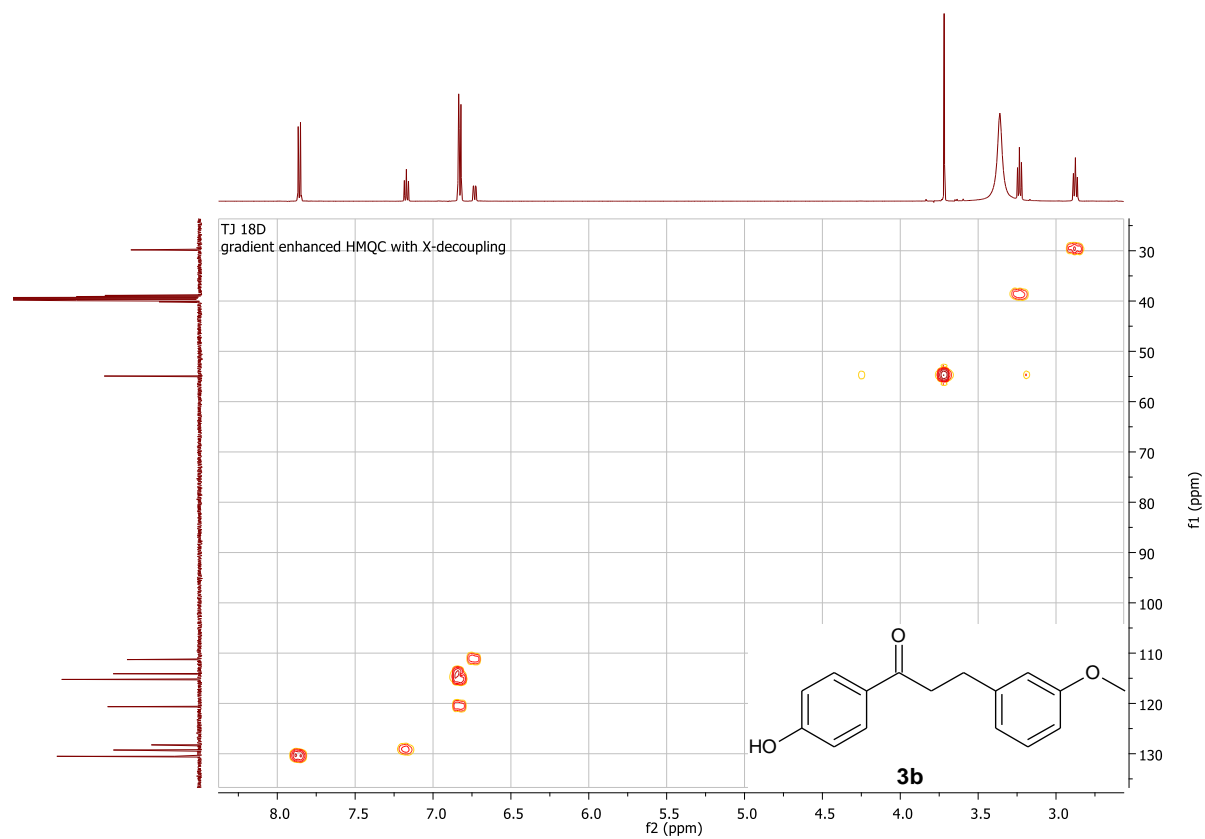


Figure S53. HMBC NMR spectrum of 4'-hydroxy-3-methoxydihydrochalcone (**3b**) (DMSO-*d*₆, 600 MHz)

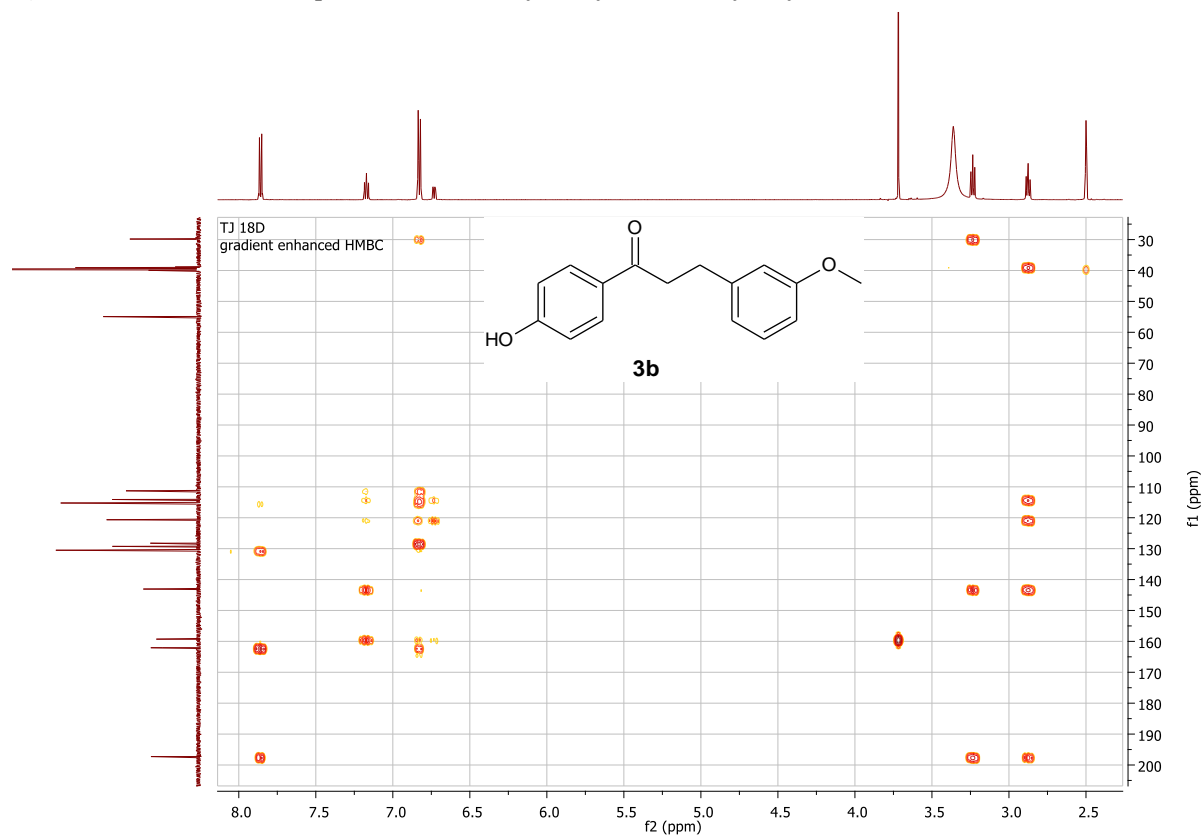


Figure S54. ¹H NMR spectrum of *trans*-4'-hydroxy-4-methoxychalcone (**4**) (DMSO-*d*₆, 600 MHz)

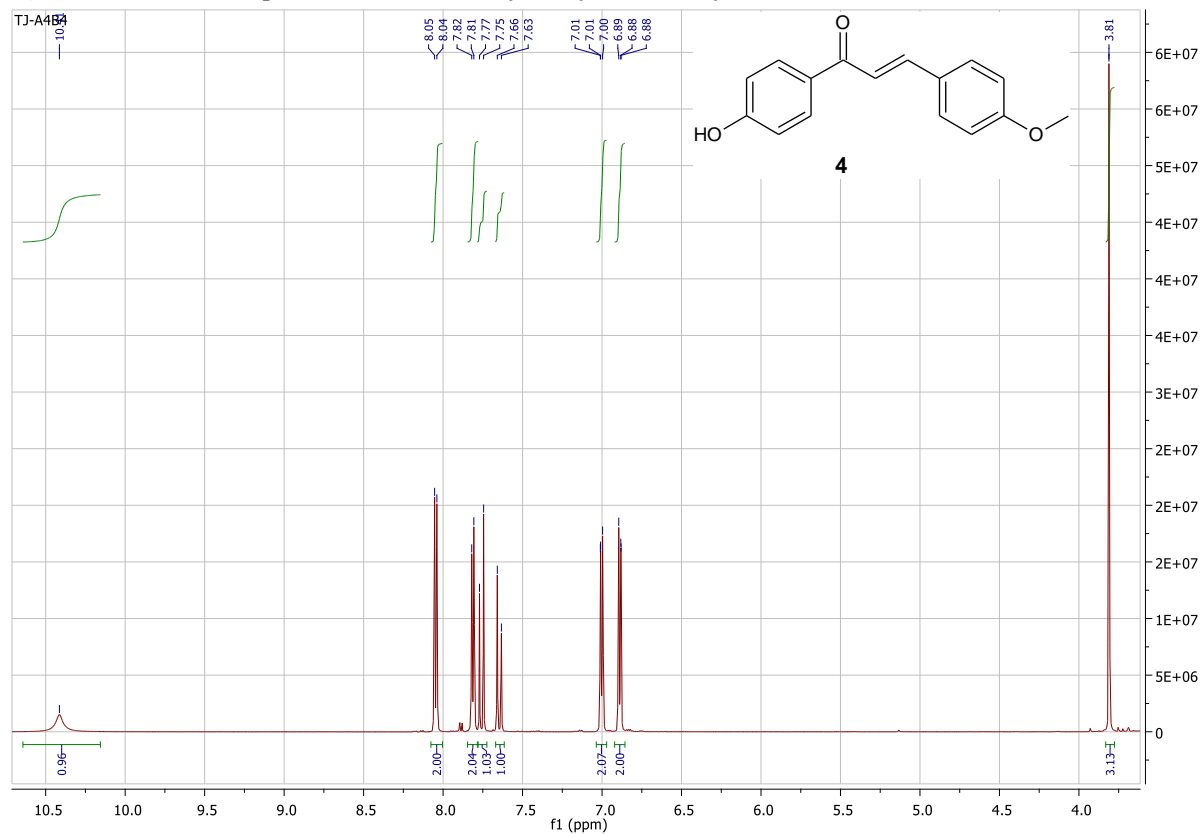


Figure S55. Part of the ^1H NMR spectrum of *trans*-4'-hydroxy-4-methoxychalcone (**4**) (DMSO- d_6 , 600 MHz)

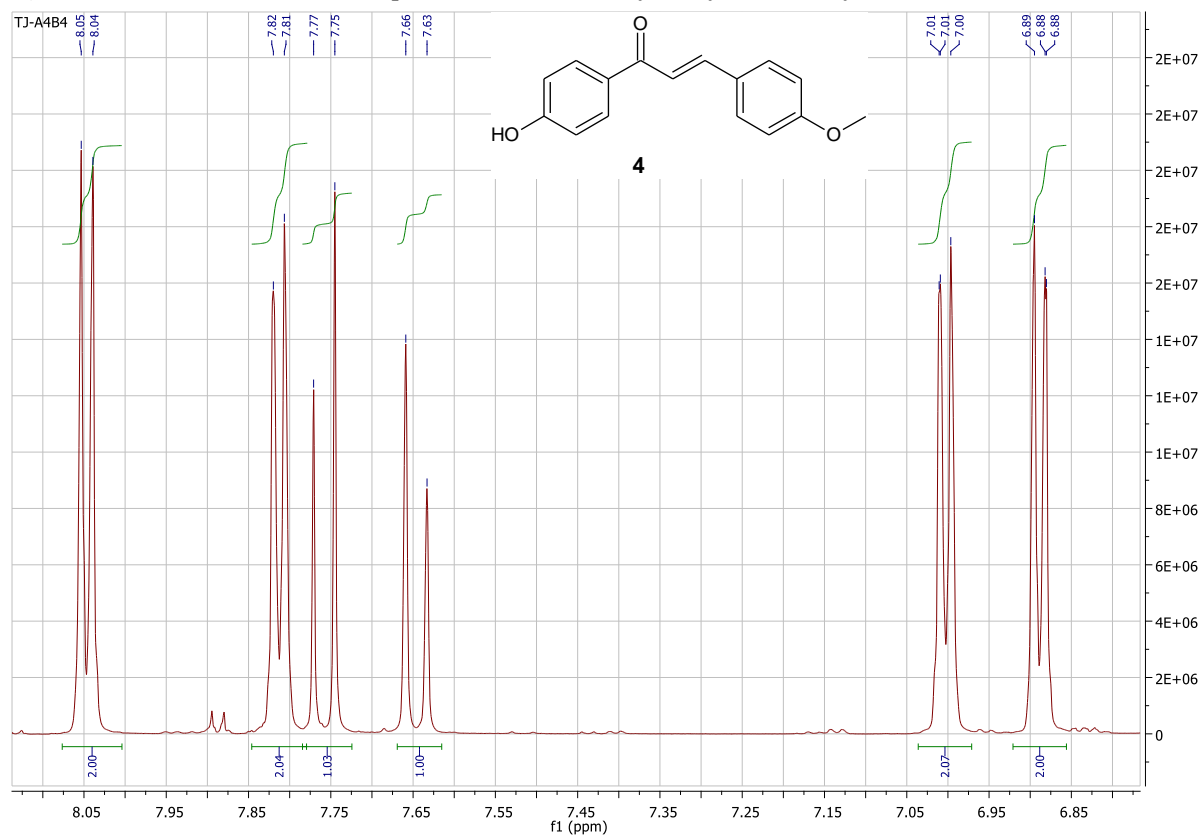


Figure S56. ^{13}C NMR spectrum of *trans*-4'-hydroxy-4-methoxychalcone (**4**) (DMSO- d_6 , 151 MHz)

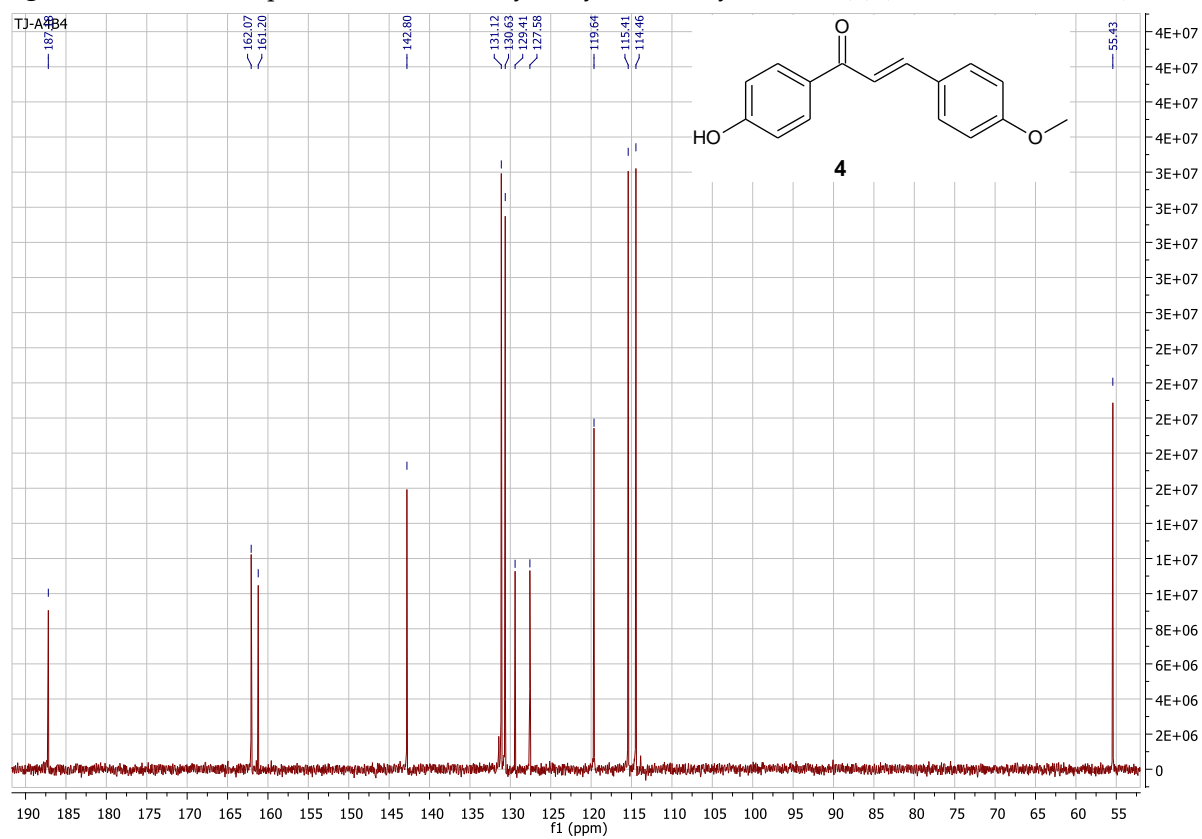


Figure S57. COSY NMR spectrum of *trans*-4'-hydroxy-4-methoxychalcone (**4**) (DMSO-*d*₆, 600 MHz)

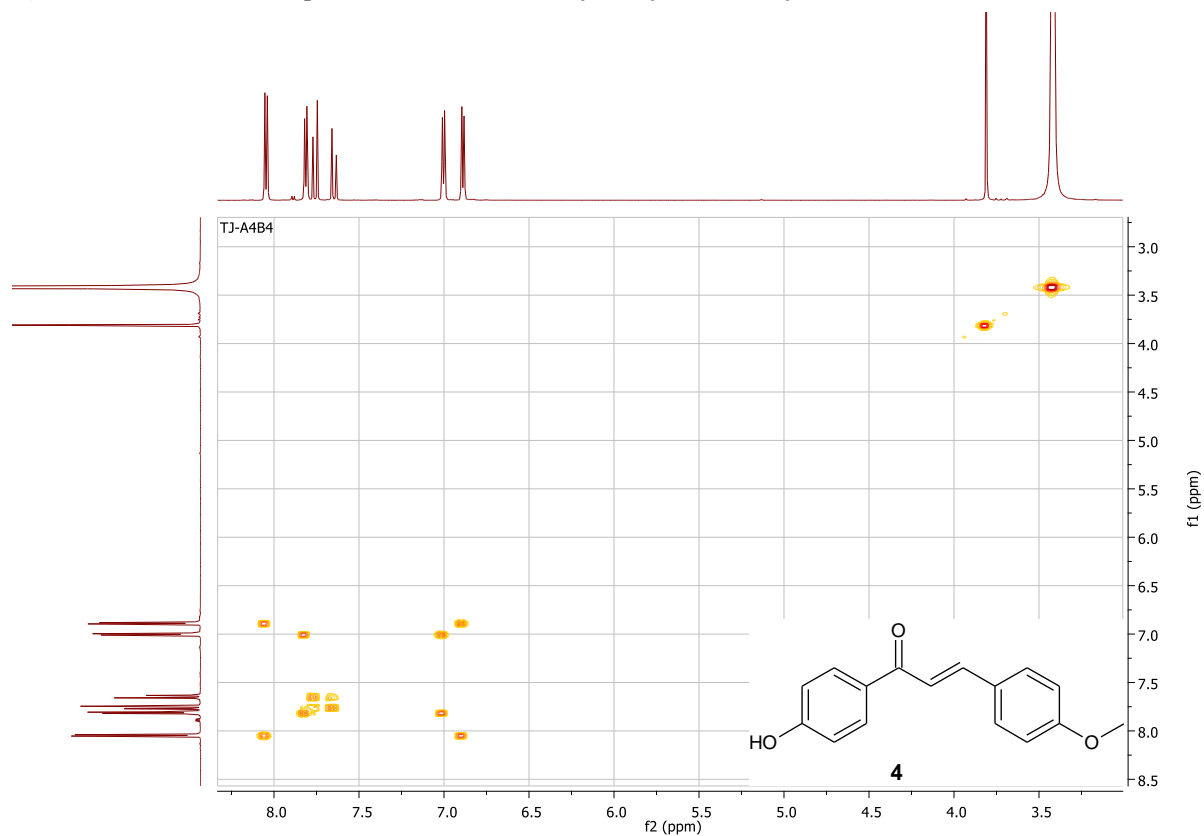


Figure S58. HMQC NMR spectrum of *trans*-4'-hydroxy-4-methoxychalcone (**4**) (DMSO-*d*₆, 600 MHz)

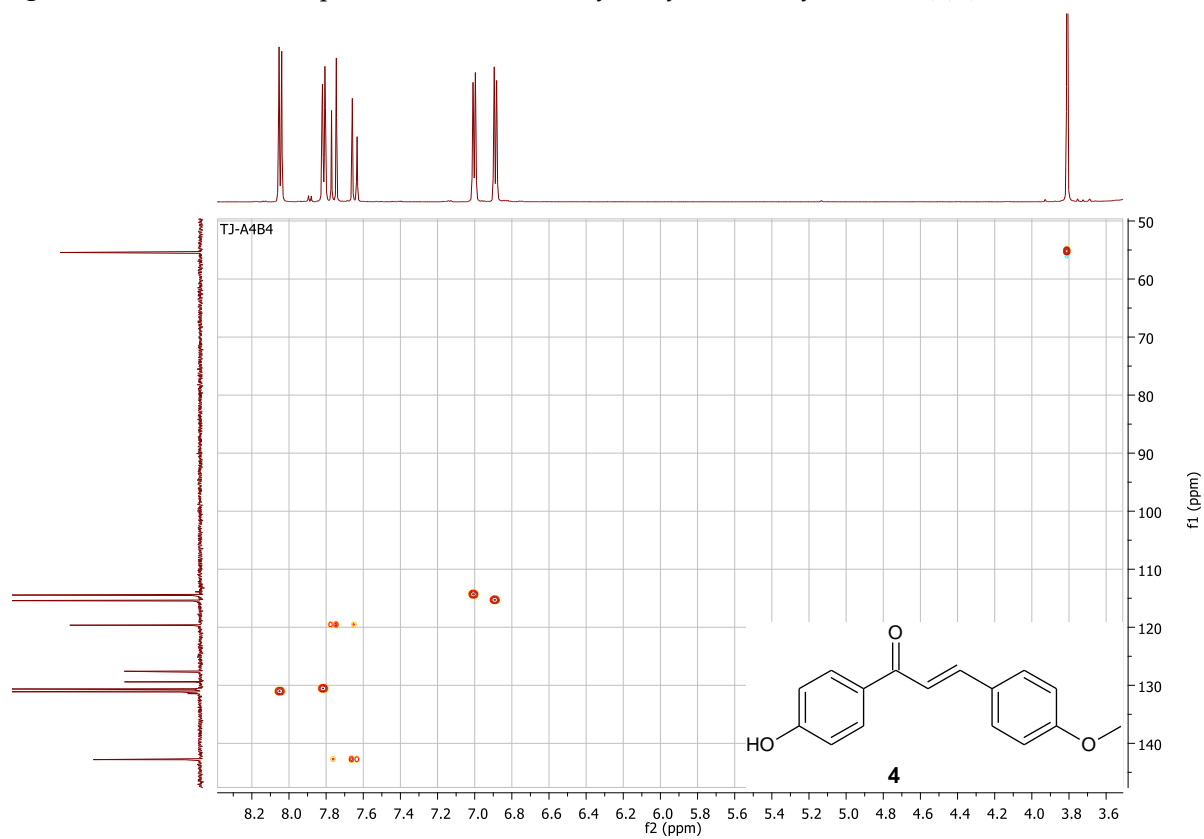


Figure S59. HMBC NMR spectrum of *trans*-4'-hydroxy-4-methoxychalcone (**4**) (DMSO-*d*₆, 600 MHz)

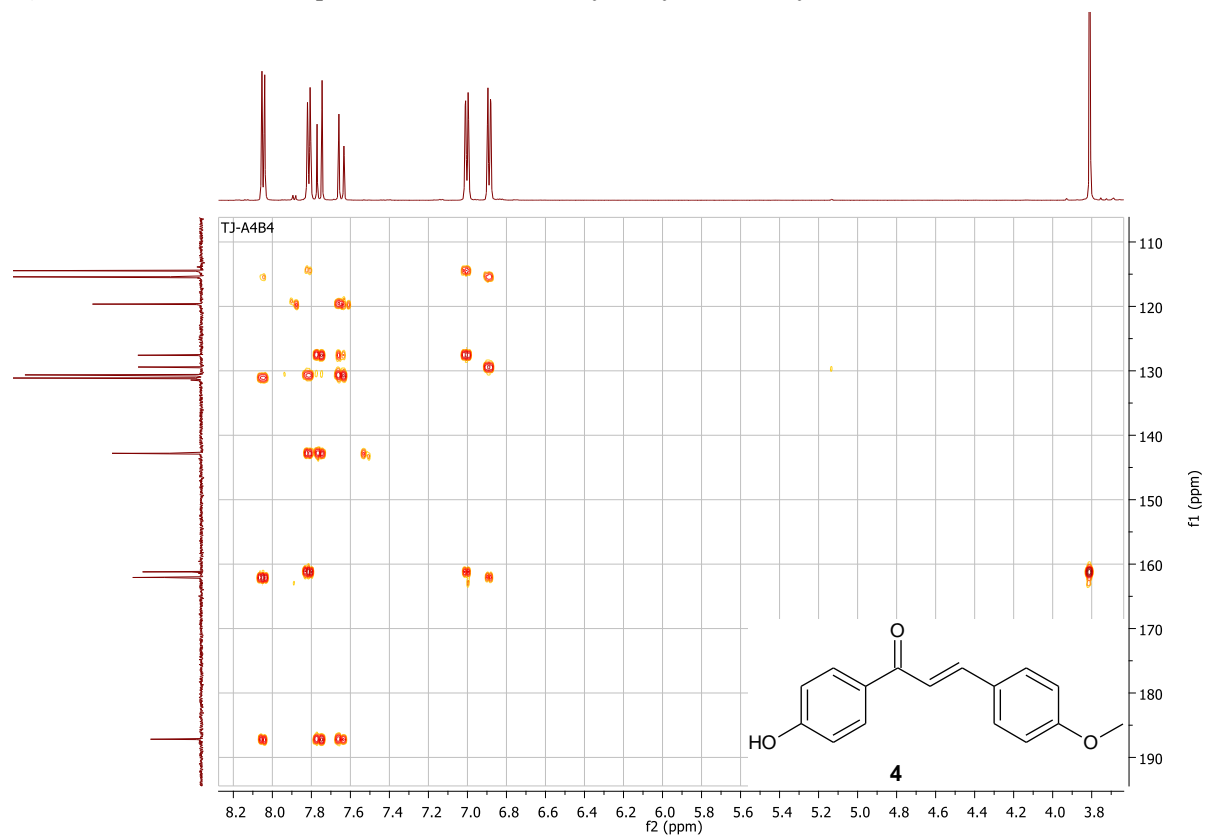


Figure S60. ¹H NMR spectrum of *cis*-4'-hydroxy-4-methoxychalcone (**4a**) (DMSO-*d*₆, 600 MHz)

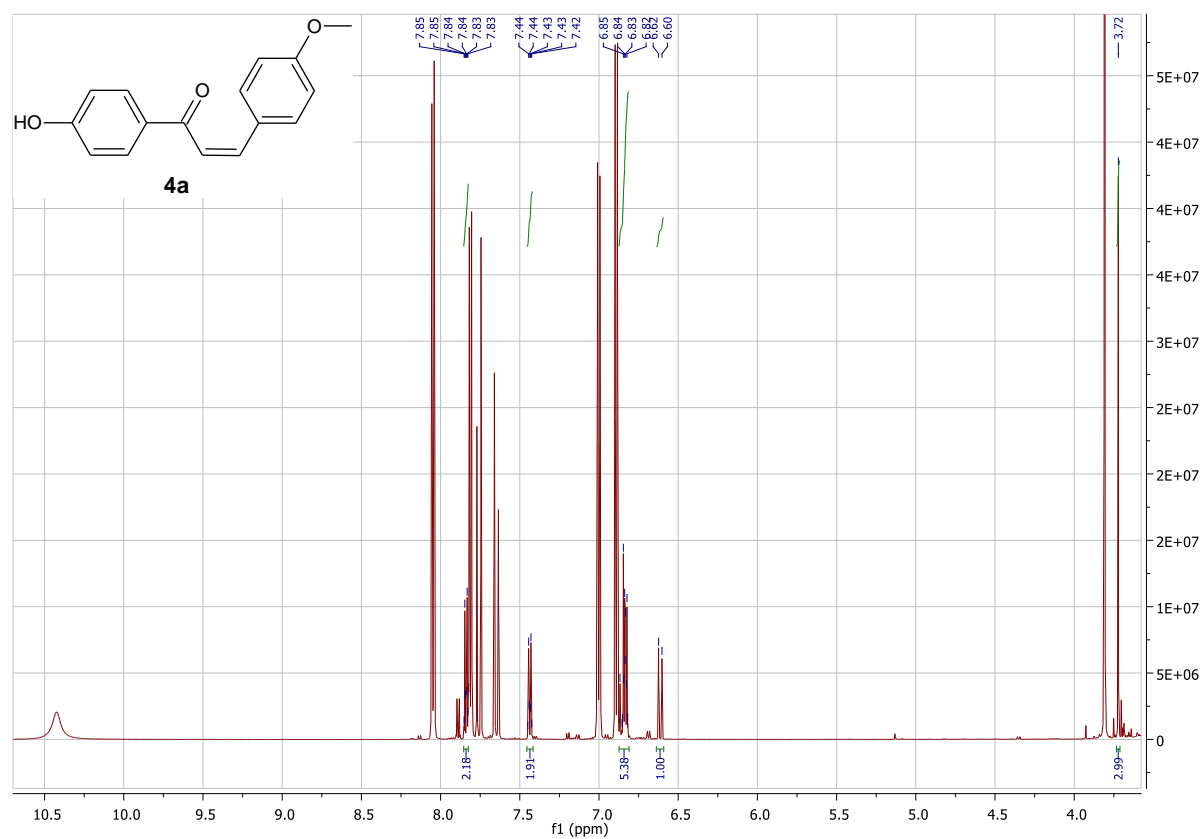


Figure S61. Part of the ^1H NMR spectrum of *cis*-4'-hydroxy-4-methoxychalcone (**4a**) (DMSO- d_6 , 600 MHz)

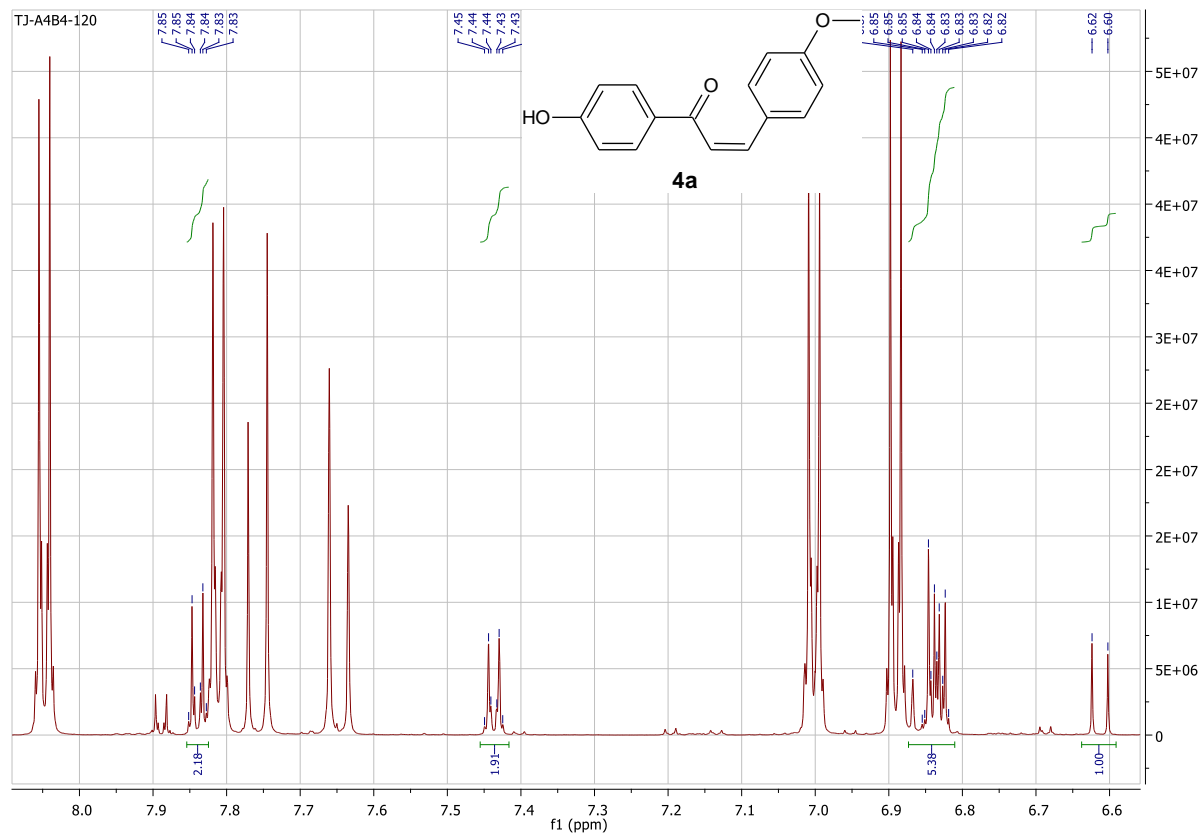


Figure S62. ^{13}C NMR spectrum of *cis*-4'-hydroxy-4-methoxychalcone (**4a**) (DMSO- d_6 , 151 MHz)

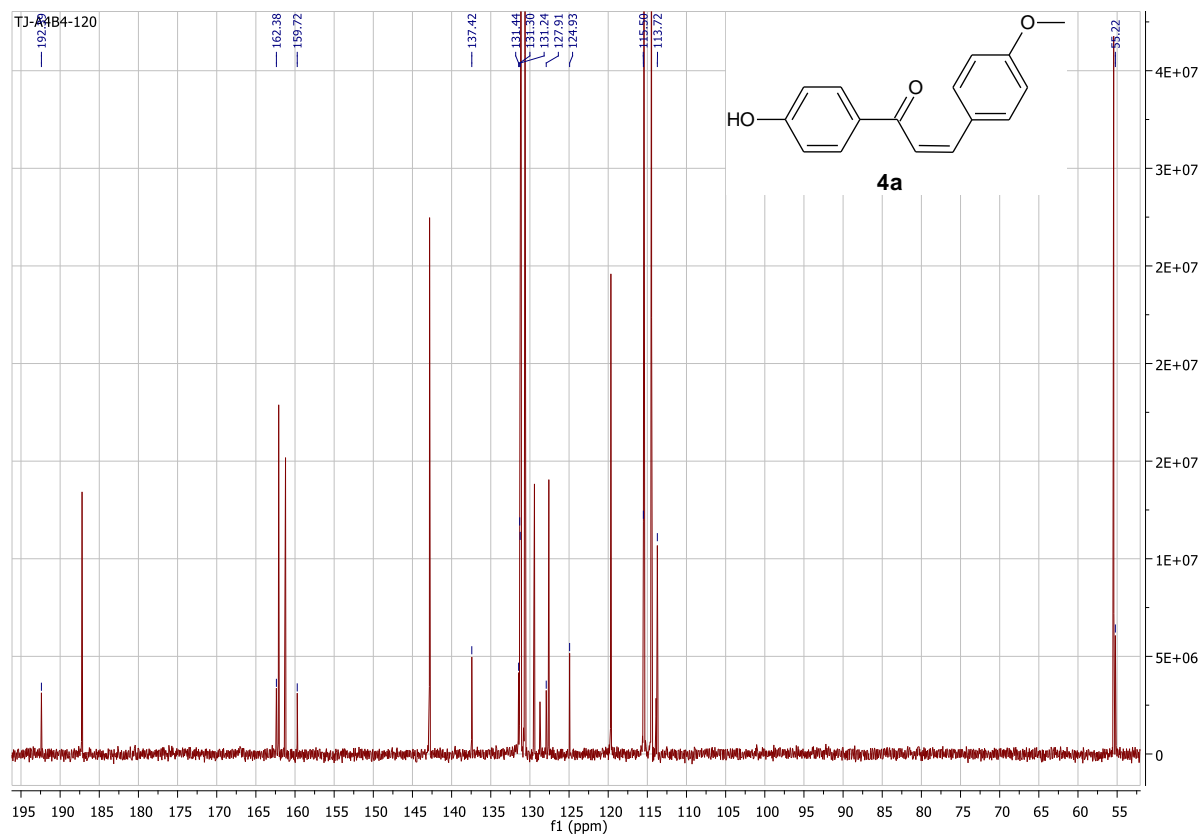


Figure S63. COSY NMR spectrum of *cis*-4'-hydroxy-4-methoxychalcone (**4a**) (DMSO-*d*₆, 600 MHz)

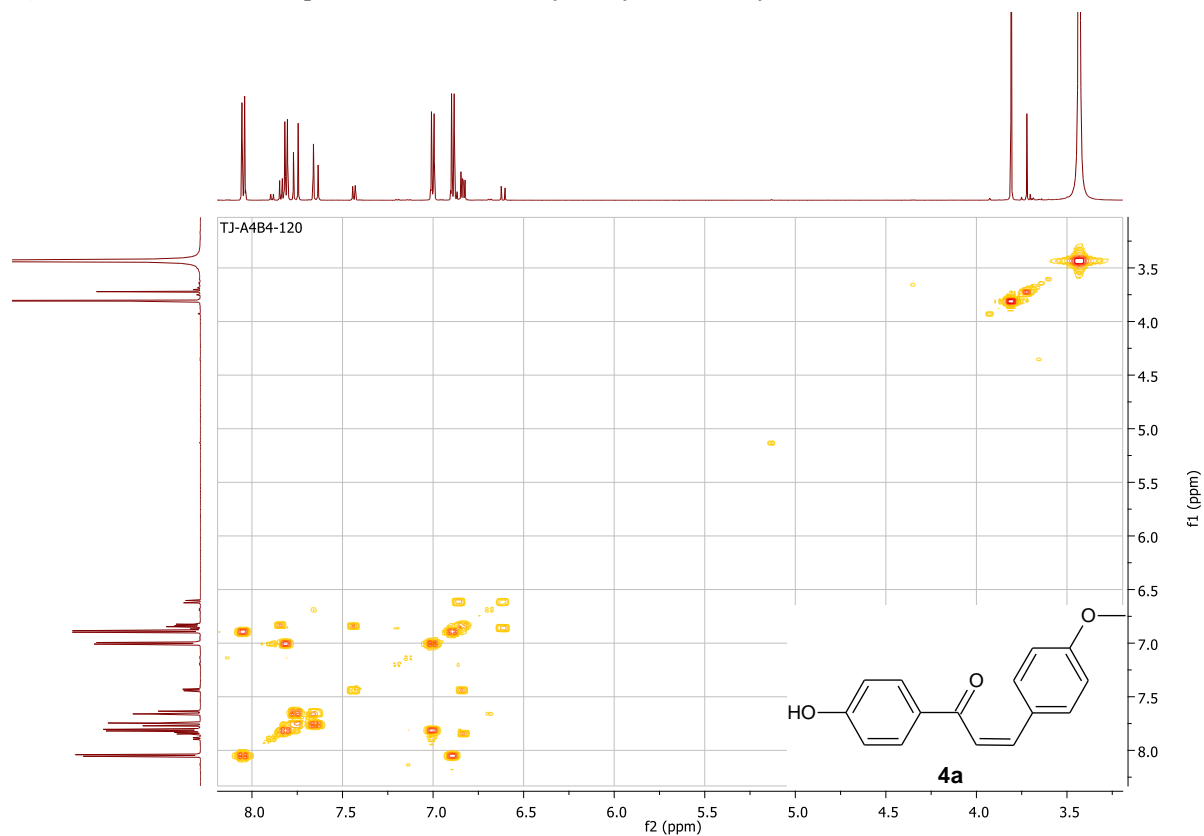


Figure S64. HMQC NMR spectrum of *cis*-4'-hydroxy-4-methoxychalcone (**4a**) (DMSO-*d*₆, 600 MHz)

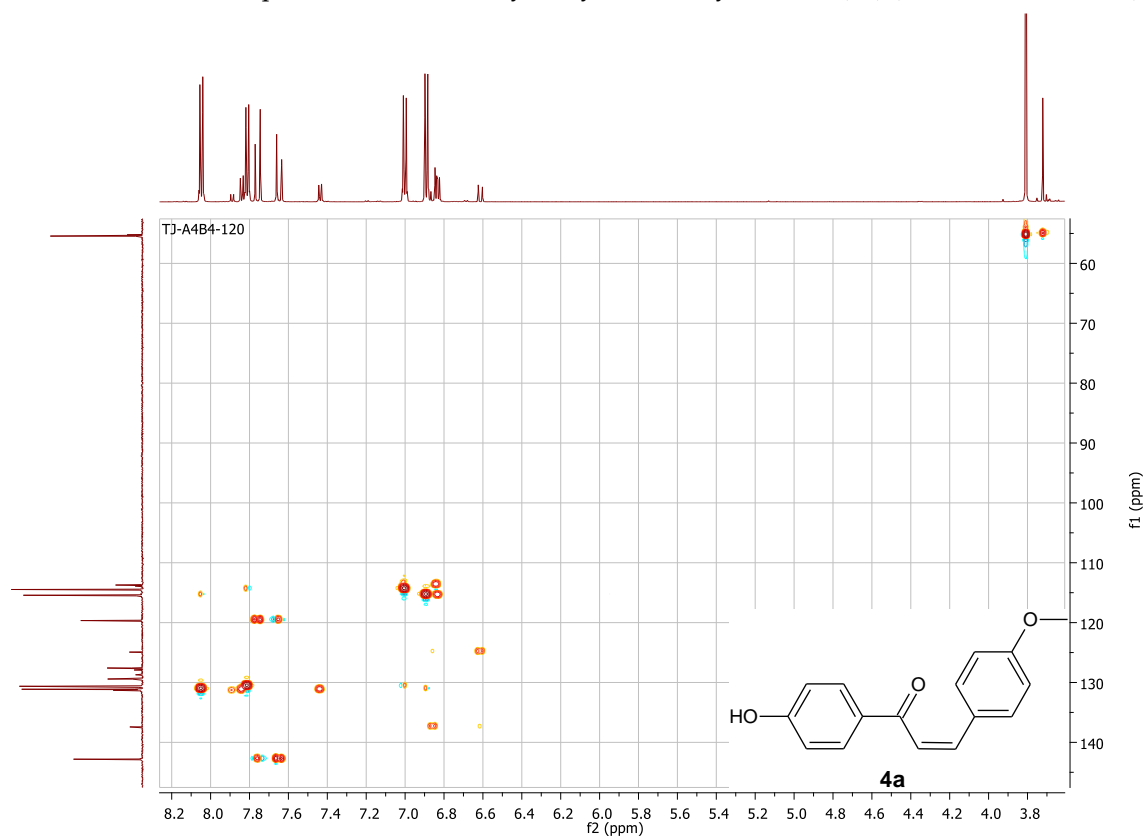


Figure S65. HMBC NMR spectrum of *cis*-4'-hydroxy-4-methoxychalcone (**4a**) (DMSO-*d*₆, 600 MHz)

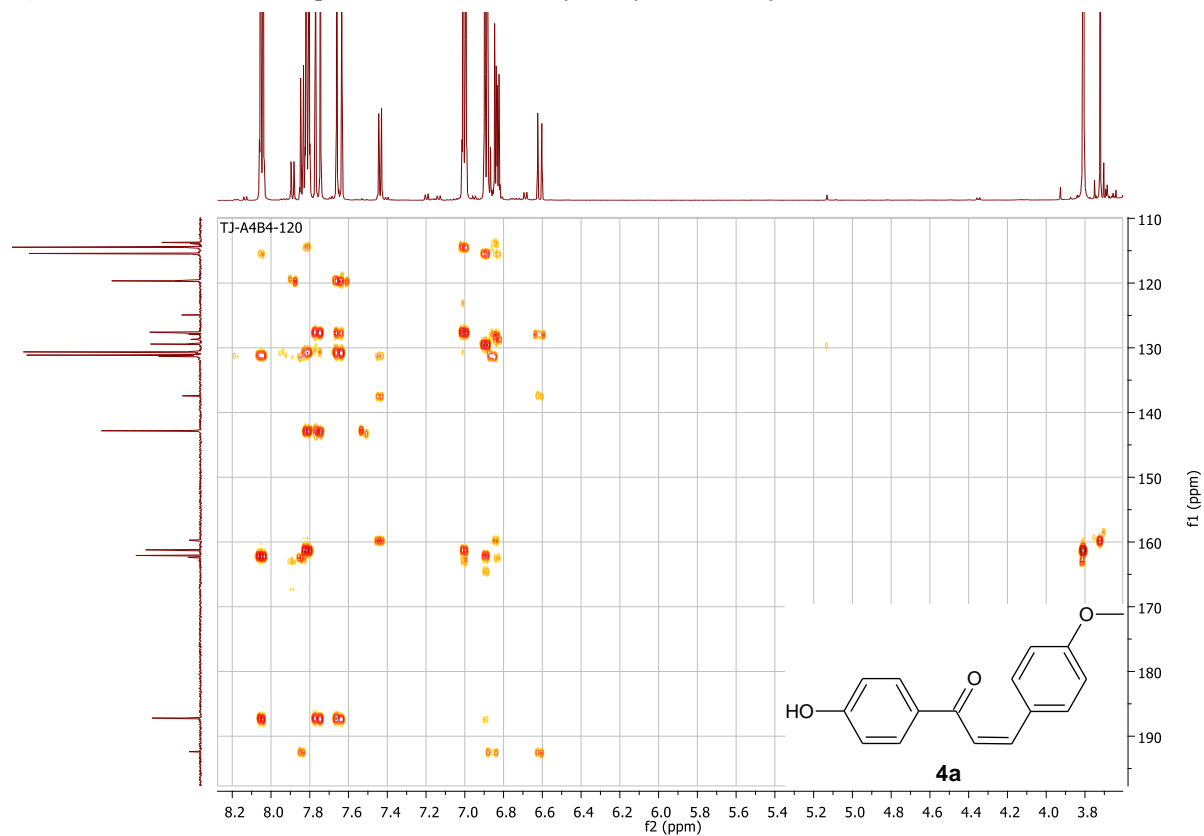


Figure S66. ¹H NMR spectrum of 4'-hydroxy-4-methoxydihydrochalcone (**4b**) (CDCl₃, 600 MHz)

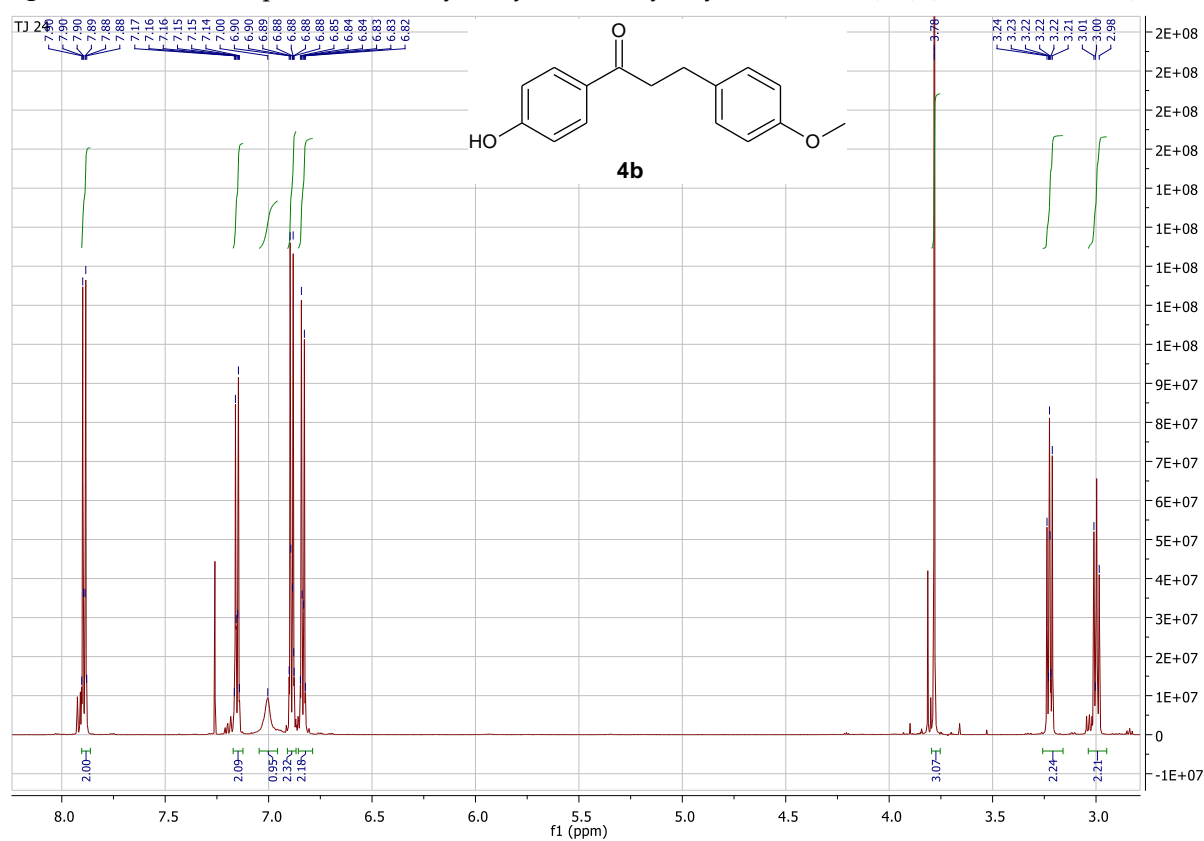


Figure S67. Part of the ^1H NMR spectrum of 4'-hydroxy-4-methoxydihydrochalcone (**4b**) (CDCl_3 , 600 MHz)

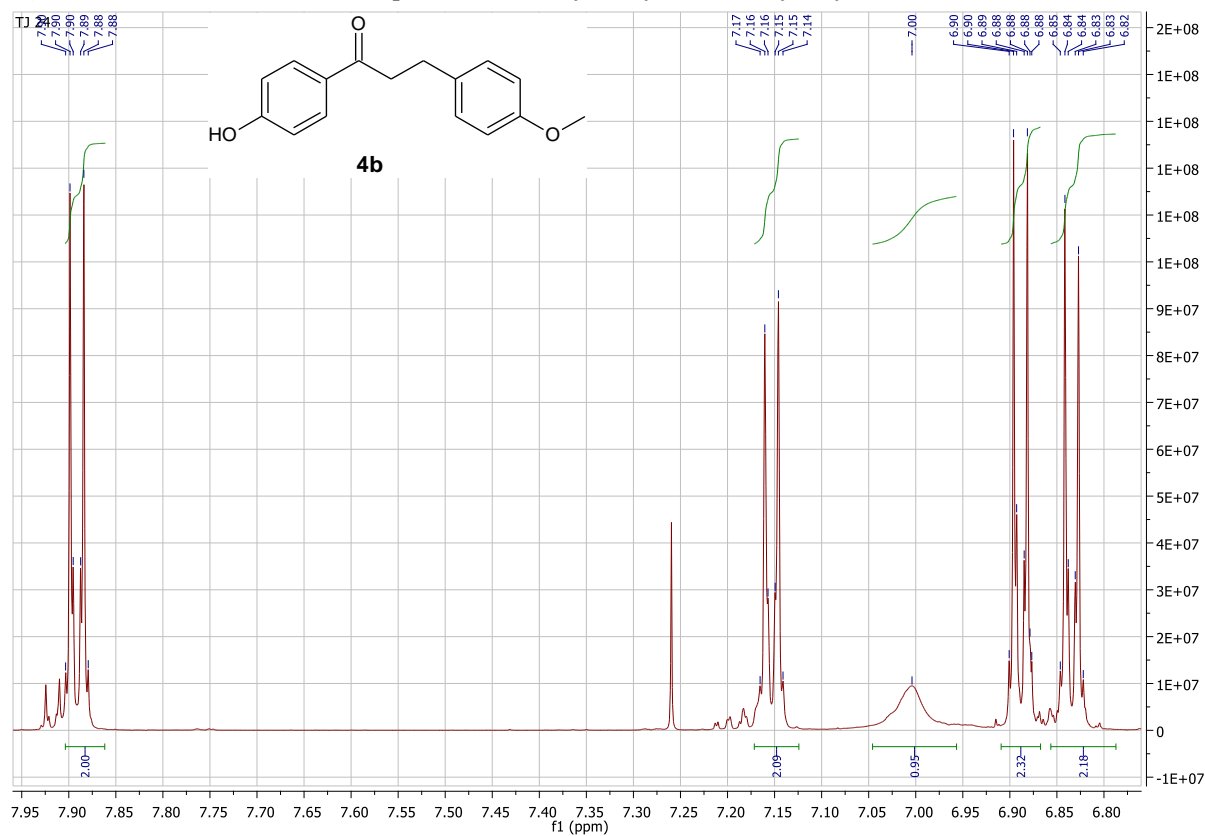


Figure S68. ^{13}C NMR spectrum of 4'-hydroxy-4-methoxydihydrochalcone (**4b**) (CDCl_3 , 151 MHz)

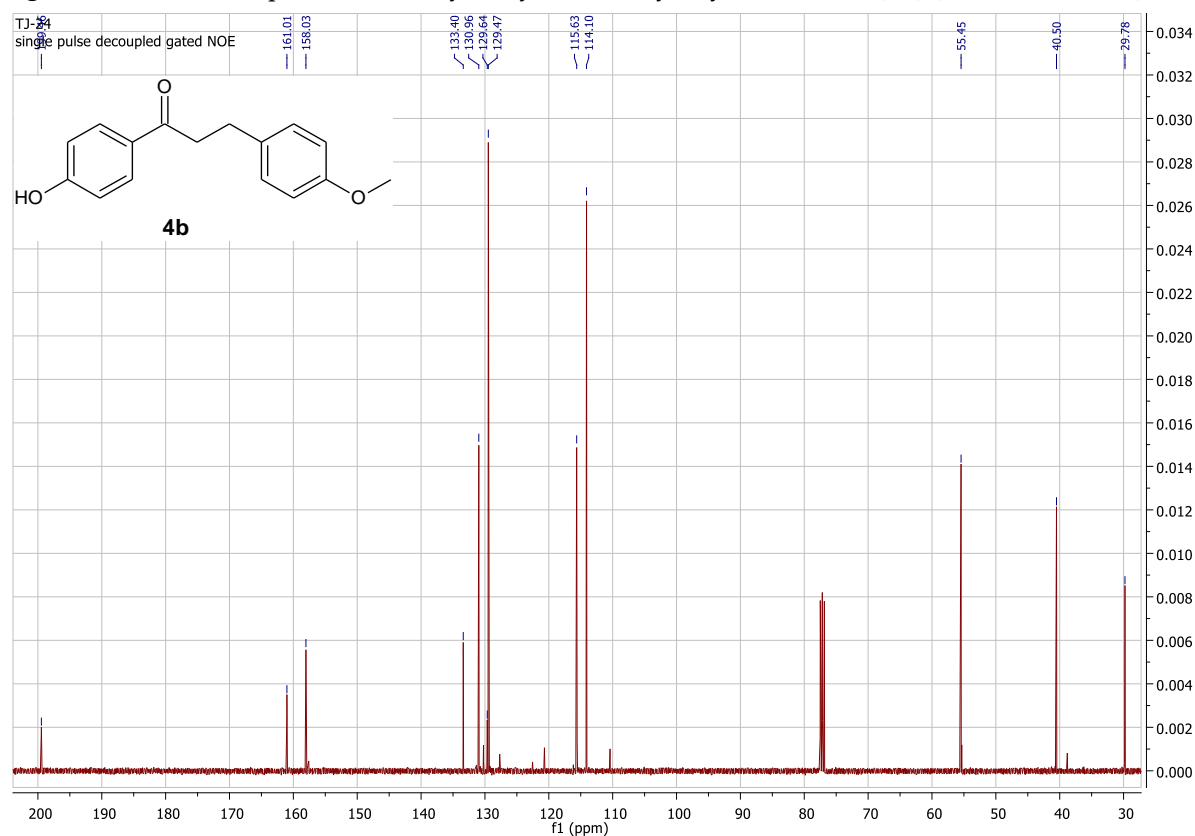


Figure S69. COSY NMR spectrum of of 4'-hydroxy-4-methoxydihydrochalcone (**4b**) (CDCl₃, 600 MHz)

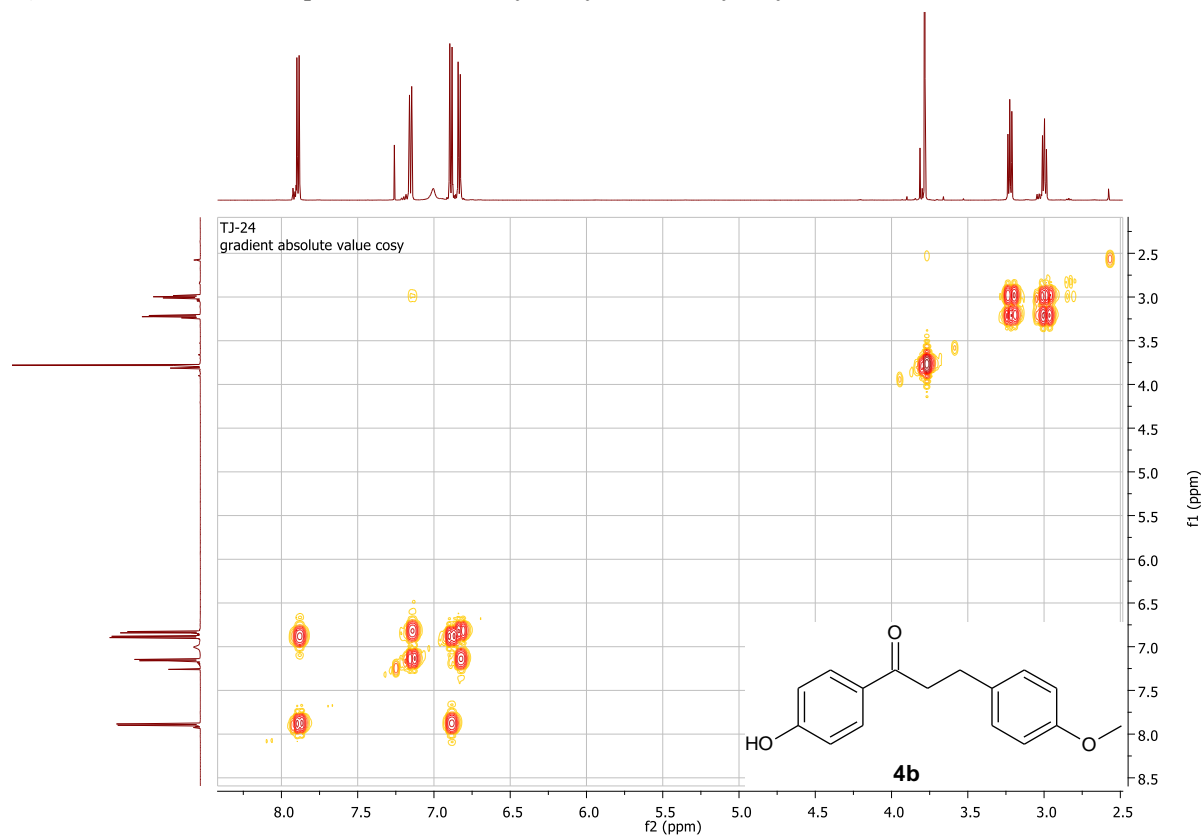


Figure S70. HMQC NMR spectrum of of 4'-hydroxy-4-methoxydihydrochalcone (**4b**) (CDCl₃, 600 MHz)

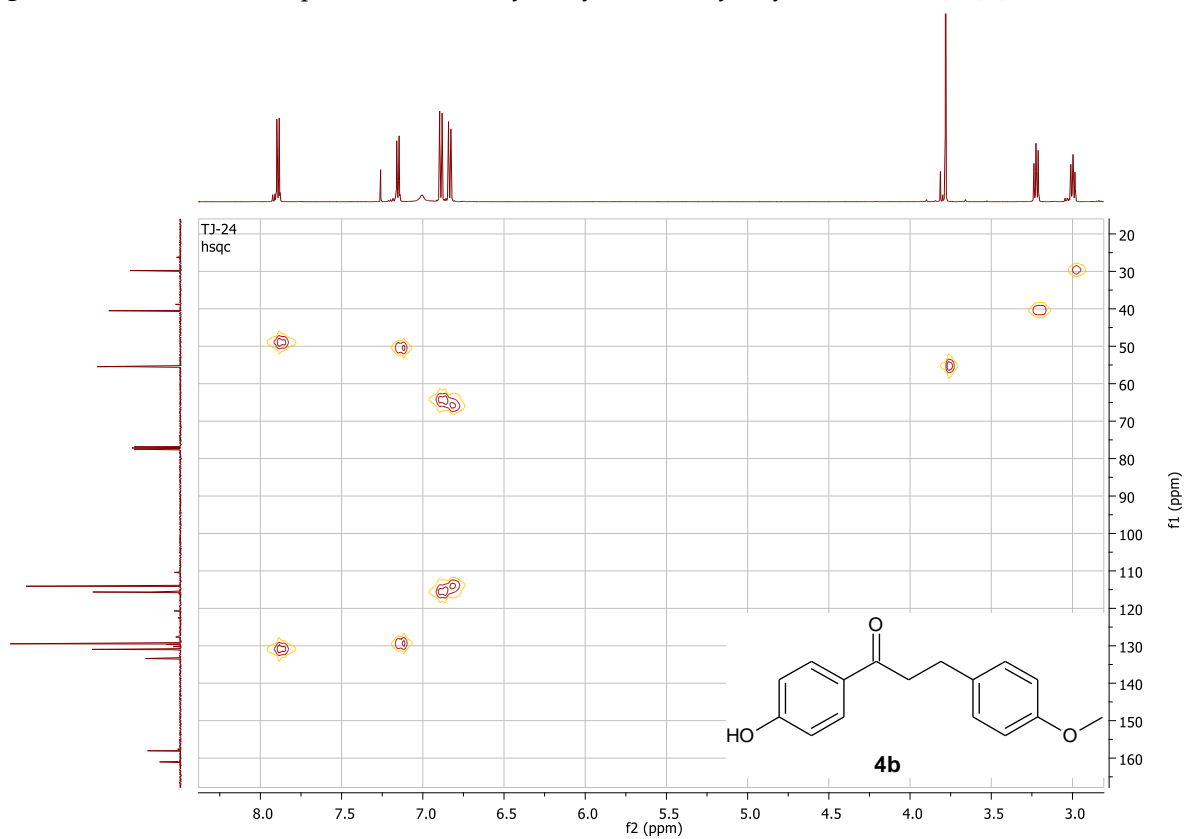


Figure S71. HMBC NMR spectrum of 4'-hydroxy-4-methoxydihydrochalcone (**4b**) (CDCl₃, 600 MHz)

