Electronic Supplementary Information

Oligostilbenes from Vatica mangachapoi with Xanthine Oxidase and

Acetylcholinesterase Inhibitory Activities

Yan Hua Qin, Jie Zhang, Jiang Tao Cui, Zhi Kai Guo, Nan Jiang, Ren Xiang Tan and Hui Ming Ge

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Figure S1¹H-NMR spectrum of compound **1** (DMSO-*d*₆)



Figure S2 ¹³C-NMR spectrum of compound **1** (DMSO-*d*₆)



Figure S3 HMQC spectrum of compound 1 (DMSO-*d*₆)



Figure S4 HMBC spectrum of compound **1** (DMSO-*d*₆)

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Figure S5 ¹H-¹H COSY spectrum of compound **1** (DMSO-*d*₆)



Figure S6 NOESY spectrum of compound **1** (DMSO-*d*₆)

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Figure S7 HRESIMS spectrum of compound 1 (positive mode)



Figure S8 FT-IR spectrum of compound 1 (KBr)



Figure S9 The theoretically predicted UV spectrum for **1**. The calculations are carried out at B3LYP/6–31G(d) level within the polarizable continuum model (CH₃OH solvent: dielectric constant ε = 32.63).

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No.	WL (nm)	Peak (Abs)	No.	WL (nm)	Valley (Abs)
1	673.50	0.004	1	658.50	0.003
2	643.50	0.004	2	642.50	0.003
3	636.50	0.004	3	628.50	0.003
4	616.00	0.004	4	614.00	0.003
5	598.50	0.004	5	592.00	0.003
6	589.50	0.004	6	569.50	0.003
7	556.00	0.004	7	525,50	0.003
8	277.50	0.137	8	264.00	0.121
9	206.00	1.096			

Figure S10 UV spectrum of compound **1** (CH₃OH)





Figure S11 ¹H-NMR spectrum of compound **2** (DMSO-*d*₆)



Figure S12¹³C-NMR spectrum of compound **2** (DMSO-*d*₆)



Figure S13 HMQC spectrum of compound 2 (DMSO-*d*₆)



Figure S14 HMBC spectrum of compound 2 (DMSO-*d*₆)



Figure S15 ¹H-¹H COSY spectrum of compound **2** (DMSO-*d*₆)



Figure S16 NOESY spectrum of compound 2 (DMSO-*d*₆)

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Dai Sar Ins Acc IRN Cor	ta Filename mple Type trument Nam a Method M Calibration mment	ne Status	B22H-22-9-4.d Sample Instrument 1 TEMP2.m Some Ions Missed	Sample Name Position User Name Acquired Time DA Method	B22H-22-9-4 P1-D5 5/5/2010 6:48:07 PM Default.m	
Us	er Spectra			Francisco Valtana		Tonization Mode
Peak	ctrum Source (1) in "+ TIC Sc	an"		170	Collision Energy 0	Esi
Pec m/ 1733 485 486 507 508	10 4 +ESI Se 3 - 2.5 2 1.5 1 1.5 1 0.5 173.08 0 200 ak List z z z 1.629 1 1.1049 1 1.1086 1	can (1.026 50 (M 29 29 29 20 400 887 4303 3876 1382 4303 33319 8317	600 800 10 600 800 10 Formula C28 H21 08 C28 H21 08 C28 H20 Na 08 C28 H20 Na 08	Frag=170.0V B22H-22 2205 1475.3 000 1200 1400 nts vs. Mass-to-Charge 100 (M+H)+ (M+H)+ (M+H)+ (M+Na)+ (M+Na)+	2-9-4.d Subtract 346 1600 1800 2000 (m/2)	2200 2400
955 956 991	.2047 1 .2079 1 2205 1	8060 3540 30555				
992	.2241 1	16822				
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Figure S18 FT-IR spectrum of compound 2 (KBr)



Sample

:

Comment :	
Scan Speed : 1200 nm/min Slit : 2.0 nm PMT Voltage : Auto G	ain
Baseline : User 1 Sampling Interval: Auto	

No.	WL (nm)	Peak (Abs)	No.	WL (nm)	Valley (Abs)
1	664.00	0.000	1	642.00	0.000
2	624.00	0.000	2	614.00	0.000
3	376.00	0.318	3	312.00	0.108
4	272.00	0.180	4	260.00	0.173





Figure S20 ¹H-NMR spectrum of compound **3** (acetone- d_6)



Figure S21 ¹³C-NMR spectrum of compound **3** (acetone- d_6)



Figure S22 HSQC spectrum of compound 3 (acetone- d_6)



Figure S23 HMBC spectrum of compound 3 (acetone- d_6)



Figure S24 1 H- 1 H COSY spectrum of compound **3** (acetone- d_{6})



Figure S25 ROESY spectrum of compound **3** (acetone- d_6)

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User Sp	ectra											
Spectrum	Source	-			Frag	mentor Voltage	e	Collisio	on Energy	<i>'</i>	Ioniza	tion Mode Esi
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15												
1.5												
1-												
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o		ير مان سا جو	·				555.	1.				
	100 2	00 300	400	500	600 Counts	700 800 vs. Mass-to-0	900 Charge (1000 (m/z)	1100	1200	1300	1400 15
Peak List					-	1						
m/z	2241	Abund. F	ormula	-	Ion	-						
279.1	5904	37659				1						
467.11	1245 1	244253 0	28H19O7		(M+H)+	1						
467.37	7867	15248				1						
468.1	1153 1	67709	28H19O7		(M+H)+							
489.09	9437	22240]						
955.19	9869	17157										

Figure S26 HRESIMS spectrum of compound 3 (positive mode)



Figure S27 FT-IR spectrum of compound 3 (KBr)



No.	WL (nm)	Peak (Abs)	No.	WL (nm)	Valley (Abs)
1	662.00	0.001	1	654.00	0.001
2	644.00	0.001	2	636.00	0.001
3	328.00	0.229	3	318.00	0.222
4	268.00	0.530	4	248.00	0.457

Figure S28 UV spectrum of compound 3 (CH₃OH)

> Table S1 The optimized structural information for 1 within polarizable continuum model (CH₃OH solvent: dielectric constant $\varepsilon = 32.63$) at B3LYP/6-31G(d) level.

Atoms	Coordinate X	Coordinate Y	Coordinate Z
С	0.535	-0.801	1.099
С	-0.688	-0.243	1.546
С	-1.103	-0.357	2.874
С	-0.313	-1.054	3.790
С	0.871	-1.651	3.374
С	1.280	-1.537	2.039
Н	-2.024	0.090	3.222
Н	1.480	-2.221	4.076
С	-3.313	-2.085	-2.505
С	-1.921	-2.145	-2.382
С	-4.070	-1.269	-1.653
С	-1.230	-1.390	-1.421
Н	-1.381	-2.795	-3.067
С	-3.359	-0.519	-0.733
Н	-5.154	-1.225	-1.697
С	-1.970	-0.523	-0.609
С	-1.595	0.442	0.507
С	-3.010	0.815	1.041
С	0.273	-1.623	-1.296
Н	0.712	-1.502	-2.300
С	0.977	-0.624	-0.359
Н	0.590	0.349	-0.672
С	2.482	-0.506	-0.607
С	3.119	0.696	-0.278
С	3.254	-1.512	-1.207
С	4.477	0.895	-0.527
Н	2.543	1.499	0.177
С	4.608	-1.324	-1.472
Н	2.793	-2.464	-1.445
С	5.226	-0.118	-1.130
Н	4.948	1.841	-0.265
Н	5.201	-2.106	-1.937
0	0.529	-2.950	-0.824
Н	-0.089	-3.550	-1.270
0	-3.887	-2.857	-3.473
Н	-4.847	-2.724	-3.461
0	-3.977	0.290	0.199
0	-3.315	1.505	1.972
С	-1.044	1.811	0.029
С	-0.448	2.675	0.956
С	-1.215	2.264	-1.287
С	-0.012	3.942	0.577
Н	-0.327	2.357	1.986
С	-0.783	3.529	-1.677
Н	-1.683	1.619	-2.024

С	-0.177	4.375	-0.744
Н	0.451	4.598	1.312
Н	-0.908	3.874	-2.698
0	0.231	5.605	-1.176
Н	0.614	6.091	-0.429
0	-0.764	-1.126	5.079
Н	-0.133	-1.639	5.607
0	2.425	-2.150	1.629
Н	2.829	-2.603	2.385
0	6.562	0.014	-1.411
Н	6.852	0.896	-1.130

> Table S2 TDDFT results for the optimized conformer of (7bS)-1 (200nm $<\lambda<400$ nm). The TDDFT calculations are done at the level of B3LYP/6-31G(d) in the polarizable continuum model (CH₃OH solvent: dielectric constant $\varepsilon = 32.63$).

	Excitation	Rotatory Strength	Oggillator Strongth	Dominant	
Transition	energy ^a	R^b		Contributions ^c	Weight
	(nm)	(10^{-40} cgs)	J		
4	283.33	30.1915	0.0550	124 →127	0.44
5	281.26	36.4259	0.0259	123 →127	0.46
7	273.28	1.5034	0.0621	126 →129	0.26
10	264.87	-47.8648	0.0117	122 →127	0.34
11	263.73	-20.6052	0.0078	125 →129	0.32
12	261.37	52.7662	0.0296	124 →128	0.24
16	249.32	21.2609	0.0362	126 →132	0.24
18	247.56	15.7061	0.0346	122 →128	0.15
19	245.65	26.7606	0.0456	123 →129	0.30
21	243.29	-16.5655	0.0549	123 →130	0.29
22	242.34	22.7906	0.0298	$121 \rightarrow 127$	0.30
23	240.22	76.2092	0.0673	120 →127	0.42
25	235.92	-40.3156	0.0327	$119 \rightarrow 127$	0.24
26	235.41	-27.1127	0.0517	$126 \rightarrow 134$	0.10
31	229.47	17.2238	0.0408	$122 \rightarrow 130$	0.26
32	228.41	31.0249	0.0111	$117 \rightarrow 127$	0.48
36	225.01	19.4478	0.0132	$124 \rightarrow 132$	0.20
15	216.50	20.0542	0.1102	$120 \rightarrow 129$	0.12
45	216.58	20.9542	0.1105	$126 \rightarrow 132$	0.14
16	216 11	22 7901	0.0660	$120 \rightarrow 129$	0.13
40	210.11	22.7801	0.0009	$123 \rightarrow 133$	0.10
48	215.11	-37.8064	0.0617	$125 \rightarrow 135$	0.24
51	212.27	27 5224	0.0208	$120 \rightarrow 130$	0.10
51	212.27	-27.3234	0.0398	$123 \rightarrow 134$	0.23
52	210.14	95.6042	0.2251	$122 \rightarrow 132$	0.15
53	208 12	-32 60/2	0.0157	$119 \rightarrow 130$	0.17
55	200.12	-52.0742	0.0137	$124 \rightarrow 135$	0.17
55	206 53	30 5997	0.0228	$119 \rightarrow 129$	0.11
55	200.33	50.5777	0.0220	$124 \rightarrow 135$	0.11
56	205 11	-159.092	0.1134	$121 \rightarrow 132$	0.10
50	205.11	-137.072	0.1134	$122 \rightarrow 133$	0.10
57	204.88	-220.727	0.1386	$123 \rightarrow 134$	0.09
58	204 63	-31 5183	0.0487	$121 \rightarrow 132$	0.12
50	201.05	51.5105	0.0107	$123 \rightarrow 135$	0.13
60	202 45	-72 4806	0 1782	$120 \rightarrow 131$	0.13
00	202.70	12.1000	0.1702	$122 \rightarrow 134$	0.09
61	202.00	228.1845	0.2204	$122 \rightarrow 134$	0.19
62	201.12	236.9758	0.3268	$120 \rightarrow 132$	0.19
63	200.06	36.0665	0.0614	$116 \rightarrow 127$	0.39

^{*a*} Excited states with f < 0.1 and $R < \pm 16.0$ were not presented. All the excitation energies are shifted 11 nm according to the UV correction.

^b All the strengths were in the velocity representation.

^c Configurations with weights below 0.10 were not displayed.

> Table S3. The Cartesian coordinates of the optimized structure for 2 within PCM model (CH₃OH solvent: dielectric constant ε =32.63) at B3LYP/6–31G(d) level.

Atom	Х	Y	Ζ
С	-1.250	0.628	-0.748
С	1.614	0.324	-0.049
С	1.711	1.792	-0.550
Н	0.906	0.358	0.789
Н	2.503	2.299	0.017
0	2.048	1.772	-1.938
Н	2.074	2.694	-2.241
С	2.920	-0.164	0.575
С	2.872	-1.034	1.667
С	4.180	0.273	0.141
С	4.035	-1.469	2.306
Н	1.909	-1.384	2.033
С	5.348	-0.142	0.771
Н	4.247	0.927	-0.723
С	5.279	-1.020	1.859
Н	3.971	-2.145	3.158
Н	6.321	0.197	0.431
0	6.460	-1.397	2.443
Н	6.265	-1.997	3.180
С	0.945	-0.568	-1.103
С	-0.446	-0.436	-1.363
С	1.642	-1.537	-1.855
С	-1.093	-1.287	-2.282
С	0.993	-2.380	-2.761
С	-0.375	-2.253	-2.974
Н	-2.144	-1.139	-2.496
Н	1.552	-3.124	-3.322
0	-0.951	-3.094	-3.885
Н	-1.891	-2.871	-3.963
С	0.424	2.544	-0.277
С	-0.864	1.872	-0.337
С	0.444	3.842	0.108
С	-2.042	2.609	0.097
С	-0.768	4.627	0.469
Н	1.383	4.382	0.211
С	-2.041	3.907	0.470
Н	-2.942	4.434	0.764
0	-0.670	5.817	0.776
0	-3.133	1.803	0.074
C	-2.766	0.512	-0.479
0	-3.463	0.354	-1.689
H	-4.410	0.349	-1.468
C	-3.127	-0.555	0.550
C	-2.941	-0.314	1.916
C	-3.624	-1.804	0.155
С	-3.245	-1.288	2.862

Н	-2.569	0.650	2.249
С	-3.935	-2.785	1.092
Н	-3.773	-2.015	-0.899
С	-3.745	-2.530	2.453
Н	-3.102	-1.080	3.921
Н	-4.325	-3.751	0.786
0	-4.066	-3.523	3.331
Н	-3.891	-3.218	4.235
0	2.990	-1.654	-1.696
Н	3.312	-2.363	-2.274

> Table S4. TDDFT results for the optimized conformer of compound (7aR, 8aR, 7bR)-2 $(200 \text{ nm} < \lambda < 600 \text{ nm})$. The TDDFT calculations are done at the level of B3LYP/6-31G(d) in the PCM model (CH₃OH solvent: dielectric constant ε =32.63).

Transition	Excitation energy ^a (nm)	Rotatory Strength R^b (10 ⁻⁴⁰ cgs)	Oscillator Strength f^{b}	Dominant Contributions ^c	Weight
2	468.92	20.2392	0.0151	$\begin{array}{c} 125 \rightarrow 127 \\ 126 \rightarrow 127 \end{array}$	0.11 0.26
4	388.61	-28.0819	0.1250	$\begin{array}{c} 122 \rightarrow 127 \\ 124 \rightarrow 127 \end{array}$	0.20 0.15
5	378.57	-70.7110	0.2493	$\begin{array}{c} 122 \rightarrow 127 \\ 124 \rightarrow 127 \end{array}$	0.20 0.20
6	362.02	16.6995	0.0739	$121 \rightarrow 127$	0.36
9	296.93	-21.5154	0.0409	$117 \rightarrow 127$	0.36
10	290.56	-22.1269	0.1405	$\begin{array}{c} 117 \rightarrow 127 \\ 119 \rightarrow 127 \end{array}$	0.13 0.22
24	233.72	-22.6919	0.0247	$114 \rightarrow 127$ $124 \rightarrow 130$	0.13 0.19
33	222.26	-18.2217	0.0267	$124 \rightarrow 131$	0.29
36	218.74	-62.1837	0.0633	$122 \rightarrow 127$	0.11
37	218.49	19.9538	0.0243	$122 \rightarrow 129$	0.12
38	217.54	39.8335	0.0512	$123 \rightarrow 129$	0.10
39	216.85	28.0179	0.0145	$\begin{array}{c} 121 \rightarrow 129 \\ 122 \rightarrow 130 \end{array}$	0.14 0.21
41	212.80	18.3992	0.0415	$112 \rightarrow 127$	0.18
43	211.46	49.9723	0.0492	$125 \rightarrow 134$	0.06
44	210.98	-53.7444	0.0444	$121 \rightarrow 130$	0.22
45	210.72	33.4481	0.0130	$111 \rightarrow 127$	0.13

^a Excited states with f < 0.1 and $R < \pm 15.0$ were not presented.

^b All the strengths were in the velocity representation.

^c Configurations with weights below 0.10 were not displayed.

Table S5. The Cartesian coordinates of the optimized structure for **3** within PCM model (CH₃OH solvent: dielectric constant ϵ =32.63) at B3LYP/6-31G(d) level.

Atom	Х	Y	Z
С	1.050	0.814	-0.046
С	-1.970	1.409	0.808
С	-1.796	0.118	-0.048
С	-3.141	-0.525	-0.389
С	-4.243	-0.496	0.474
С	-3.316	-1.124	-1.643
С	-5.472	-1.039	0.104
Н	-4.133	-0.058	1.462
С	-4.534	-1.682	-2.029
Н	-2.480	-1.155	-2.341
С	-5.624	-1.639	-1.153
Н	-6.318	-1.005	0.791
Н	-4.657	-2.141	-3.008
0	-6.804	-2.188	-1.576
Н	-7.482	-2.092	-0.872
С	-0.941	2.458	0.432
С	0.356	2.077	0.066
С	-1.245	3.821	0.427
С	1.301	3.066	-0.252
С	-0.279	4.791	0.086
С	1.029	4.424	-0.261
С	-0.707	-0.855	0.460
С	0.667	-0.543	0.240
С	-0.977	-2.107	1.024
С	1.734	-1.507	0.328
С	0.050	-3.047	1.204
С	1.358	-2.787	0.832
С	4.172	-2.075	-0.155
С	5.448	-1.691	-0.555
Н	4.020	-3.113	0.093
С	4.712	0.574	-0.844
С	5.730	-0.355	-0.899
Н	4.904	1.611	-1.107
0	-2.240	-2.425	1.408
Н	-2.273	-3.365	1.694
0	2.301	-3.760	0.988
Н	1.879	-4.576	1.340
Н	-0.195	-4.020	1.633
С	2.348	1.135	-0.368
С	3.410	0.203	-0.449
С	3.103	-1.151	-0.078
Н	6.735	-0.068	-1.206
0	6.403	-2.667	-0.599
Н	7.258	-2.283	-0.896
0	2.524	2.495	-0.529

Н	-1.414	0.471	-1.016
Н	-2.968	1.838	0.609
0	-1.880	1.038	2.191
Н	-2.119	1.828	2.720
0	-0.567	6.125	0.076
Н	-1.502	6.268	0.344
Н	1.773	5.173	-0.515
Н	-2.251	4.151	0.688

> Table S6. TDDFT results for the optimized conformer of compound (7aR, 8aR)-3 (200nm $<\lambda<600$ nm). The TDDFT calculations are done at the level of B3LYP/6-31G(d) in the PCM model (CH₃OH solvent: dielectric constant ε =32.63).

Transition	Excitation energy ^a (nm)	Rotatory Strength R^b (10^{-40} cgs)	Oscillator Strength f^b	Dominant Contributions ^c	Weight
1	357.47	-23.4709	0.3012	$121 \rightarrow 122$	0.36
2	343.16	-21.2557	0.1386	$121 \rightarrow 123$	0.32
3	308.97	-12.1778	0.1331	$120 \rightarrow 122$	0.31
5	287.95	22.7403	0.0440	$121 \rightarrow 124$	0.41
6	285.12	-17.2423	0.1033	$118 \rightarrow 122$	0.30
7	279.25	-21.1226	0.4884	$120 \rightarrow 123$	0.28
9	271.95	17.1501	0.2131	$121 \rightarrow 125$	0.26
11	262.49	59.0263	0.1940	$118 \rightarrow 123$ $120 \rightarrow 124$ $121 \rightarrow 126$	0.14 0.33 0.15
12	255.36	0.1334	0.1380	$117 \rightarrow 122$	0.34
13	249.96	25.8374	0.0631	$120 \rightarrow 124$	0.23
21	238.85	-23.7552	0.0146	$120 \rightarrow 126$	0.36
22	232.08	21.3873	0.0765	$119 \rightarrow 125$	0.39
23	228.91	-8.8636	0.2678	$118 \rightarrow 124$	0.25
31	215.64	37.8311	0.0254	$118 \rightarrow 126$	0.26
40	203.83	-15.7421	0.0359	$116 \rightarrow 124$	0.31

^{*a*} Excited states with f < 0.1 and $R < \pm 15.0$ were not presented.

^b All the strengths were in the velocity representation.
^c Configurations with weights below 0.10 were not displayed.