#### Supplementary data

## Neuroprotective activity of some marine fungal metabolites in the 6-hydroxydopamin- and paraquatinduced Parkinson's disease models

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#### **Figure S1.** <sup>1</sup>H NMR (700 MHz, DMSO-d<sub>6</sub>) spectrum of 6-hydroxy-N-acetyl-β-oxotryptamine (1)

Figure S2.	<sup>13</sup> C NMR (	(176 MHz,	DMSO-d <sub>6</sub> ) s	pectrum of 6-	hydroxy-N-acetyl-	$\beta$ -oxotryptamine (1)		
		169.26	154.01		121.51 — 121.51 — 118.32 — 114.12 — 111.92	80.70	45,41 39,99 39,62 39,62 39,62 39,62 39,23 39,14	22.38
								Current Data Parameters NAME PS-117h-8 EXPNO 11 PROCNO 1 F2 - Acquisition Parameters Date 20151224 Time 11.20 INSTRUM spect PROBHD 5 mm PATXO 31P PULPROG zgpg TD 32768 SOLVENT DMSO NS 642 DS 0 SWH 42613.637 Hz FIDRES 1.300465 Hz AQ 0.3845279 sec RG 203 DW 11.733 usec DE 6.50 usec TE 308.1 K D1 15.00000000 sec D1 0.03000000 sec D1 0.03000000 sec TD 4996 
								PL12W     1.15988755 W       PL13W     0.46710649 W       SF02     700.0021000 MHz       F2 - Processing parameters     SI       65536     SF       SF 0     EM       SSB     0       LB     1.00 Hz       GB     0       PC     1.20
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#### **Figure S5.** HMBC (700 MHz, DMSO-d<sub>6</sub>) spectrum of 6-hydroxy-N-acetyl-β-oxotryptamine (1)



**Current Data Parameters** NAME PS-117h-8 EXPNO PROCNO 23 1 F2 - Acquisition Parameters Date\_ 20151226 Time 21.37 INSTRUM spect PROBHD 5 mm PATXO 31P PULPROG roesyph.2 ppm 1.5 TD 2048 2.0 SOLVENT DMSO NS DS SWH 32 16 2.5 7653.061 Hz 3.736846 Hz 0.1338527 sec FIDRES 3.0 AQ RG DW DE TE D0 D1 8 65.333 usec 6.50 usec . 3.5 ... 308.0 K  $\mathcal{O}^{(1)}$ 0.00005217 sec 4.0 2.00000000 sec D12 0.00002000 sec ..... IN0 L4 0.00013065 sec 4.5 1 659 290000.00 usec 11 P15 5.0 ====== CHANNEL f1 ====== NUC1 1H 
 ===== Cr

 NUC1

 P1
 1

 P25
 2

 PL1
 0 dB
 5.5 14.40 usec 220.00 usec 6.0 17.66 dB 23.41078186 W 0.40125081 W 700.0047610 MHz PL27 . . PL1W PL27W SFO1 6.5 . • 
 F1 - Acquisition parameters

 TD
 256

 SFO1
 700.0048 MHz

 FIDRES
 29.894770 Hz
 7.0 7.5 10.933 ppm TPPI 1 SW FnMODE 8.0 F2 - Processing parameters SI 2048 SF 700.0000079 MHz . 8.5 • ' WDW SINE SSB LB 0 Hz GB 0 PC 2 9.0 1.1 - A - 1 9.5 1.80 
 F1 - Processing parameters
 S1
 512

 MC2
 TPPI
 SF
 700.0000079 MHz

 WDW
 SB
 2
 LB
 0 Hz

 GB
 0
 0
 0
 0
 10.0 . . 10.5 11.0 - 11.5 - 12.0 12.0 11.5 11.0 10.5 10.0 9.5 8.0 7.5 7.0 6.5 5.5 5.0 4.5 4.0 3.5 2.5 2.0 1.5 ppm 9.0 8.5 6.0 3.0

#### **Figure S7**. ROESY (700 MHz, DMSO-d<sub>6</sub>) spectrum of 6-hydroxy-N-acetyl-β-oxotryptamine (1)



### **Figure S8.** ESI mass spectra of 6-hydroxy-N-acetyl-β-oxotryptamine (1)



Figure S10.	<sup>13</sup> C NMR (125 MHz	z, acetone-d <sub>6</sub> ) spectrur	n of 3-methylorse	llinic acid (2)		
		175.53 165.75 161.76	141.94		30.76 30.61 30.61 24.98	8.80
<b></b>						

230 225 220 215 210 205 200 195 190 185 180 175 170 165 160 155 150 145 140 135 130 125 120 115 110 105 100 95 90 85 80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 ppm







Figure S13.	<sup>13</sup> C NMR (176 M	Hz, DMSO-d <sub>6</sub> ) s <sub>1</sub>	pectra of 8-meth	noxy-3,5-dimethy	lisochroman-6-ol (3)			
	153.7(		113.10	96.02		54.75	48.49 39.59 39.50 39.50 39.50 39.50 39.50 39.74 39.74 39.74 39.74 39.74 39.74 39.74 39.74 39.74 39.74 39.74 39.74 39.74 30.74	Image: Second system Second system   K Second system   Current Data Parameters   NAME   PS-109h-10   EXPNO   PROCNO   1
								F2 - Acquisition Parameters     Date20151120     Time   12.26     INSTRUM   spect     PROBHD_5_mmPATXO_31P     PULPROG2gpg     TD   65536     SOLVENT   DMSO     NS   242     DS   0     SWH   42613.637 Hz     FIDRES   0.650232 Hz     AQ   0.7690057 sec     RG   203     DW   11.733 usec     DE   6.50 usec     TE   308.5 K     D1   6.00000000 sec     D11   0.0300000 sec     TD0   4096
								CHANNEL f1 NUC1 13C P1 9.10 usec PL1 0 dB PL1W 106.75517273 W SFO1 176.0353807 MHz
								CHANNEL 12       CPDPRG2     waltz16       NUC2     1H       PCPD2     71.90 usec       PL2     0 dB       PL13     13.05 dB       PL14     13.05 dB       PL12     23.41078186 W       PL12W     23.41078186 W       PL12W     1.15988755 W       PL13W     0.46710649 W       SFO2     700.0028000 MHz
					1 1	I		F2 - Processing parameters SI 65536 SF 176.0152396 MHz WDW EM SSB 0 LB 1.00 Hz GB 0 PC 2.00
				1				

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175	170	165	160	155	150	145	140	135	130	125	120	115	110	105	100	95	90	85	80	75	70	65	60	55	50	45	40	35	30	25	20	15	10	5	0	ppm





Figure S15.	$^{13}$ C NMR (	(125 MHz,	acetone-d <sub>6</sub> ) s	spectrum of	mactanamide (	( <b>6</b> )	)
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Figure S16. ROS formation in 6-OHDA- and PQ-treated Neuro2a cells