

APPENDIX II: NEUROPROTECTIVE ACTIVITY

Compounds	Average	Concentrations (μM)				
		6.25	12.5	25	50	100
Control	100.00 \pm 2.96	95.90	102.59	98.62	103.32	100.08
Hydrogen peroxide	45.94 \pm 1.24	41.06	42.83	41.47	44.09	46.80
Prunasin 6'- <i>O</i> -gallate (1)		44.61 \pm 1.56	48.40 \pm 1.37	46.67 \pm 0.68	63.02 \pm 1.84	71.67 \pm 1.80
Prunasin 2',6'-di- <i>O</i> -gallate (2)		48.72 \pm 1.44	51.78 \pm 1.18	60.99 \pm 1.84	68.16 \pm 2.74	82.61 \pm 2.52
Prunasin 3',6'-di- <i>O</i> -gallate (3)		53.58 \pm 2.04	58.70 \pm 1.44	63.40 \pm 2.03	75.90 \pm 2.66	83.02 \pm 2.29
Prunasin 4',6'-di- <i>O</i> -gallate (4)		51.94 \pm 2.46	55.88 \pm 1.28	61.54 \pm 2.19	77.57 \pm 1.99	93.91 \pm 1.85
Prunasin 2',3',6'-tri- <i>O</i> -gallate (5)		54.15 \pm 1.44	61.60 \pm 0.47	65.21 \pm 1.31	89.04 \pm 2.57	104.27 \pm 2.10
Prunasin 3',4',6'-tri- <i>O</i> -gallate (6)		50.48 \pm 2.08	52.71 \pm 1.21	65.14 \pm 1.69	70.97 \pm 1.92	99.01 \pm 1.84
Prunasin 2',3',4',6'-tetra- <i>O</i> -gallate (7)		61.02 \pm 1.69	77.74 \pm 2.22	89.94 \pm 2.14	107.08 \pm 2.63	119.27 \pm 3.93
6- <i>O</i> -Galloyl-D-glucose (8)		45.50 \pm 1.45	59.88 \pm 3.04	62.81 \pm 2.35	60.15 \pm 1.43	70.34 \pm 1.76
3, 6-Di- <i>O</i> -galloyl-D-glucose (9)		52.88 \pm 1.87	61.22 \pm 1.62	70.23 \pm 2.01	79.22 \pm 3.41	89.11 \pm 1.83
1,2,3-Tri- <i>O</i> -galloyl- β -D-glucose (10)		60.29 \pm 1.83	71.78 \pm 1.74	70.92 \pm 2.90	82.09 \pm 2.38	104.82 \pm 1.19
1,4,6-Tri- <i>O</i> -galloyl- β -D-glucose (11)		50.54 \pm 1.38	55.86 \pm 1.71	59.97 \pm 1.70	81.75 \pm 0.87	101.74 \pm 1.80
3,4,6-Tri- <i>O</i> -galloyl-D-glucose (12)		45.72 \pm 1.25	57.28 \pm 1.51	68.25 \pm 2.47	75.08 \pm 1.60	89.38 \pm 1.27
1,2,3,6-Tetra- <i>O</i> -galloyl- β -D-glucose (13)		54.53 \pm 1.20	69.02 \pm 2.22	78.55 \pm 2.17	93.62 \pm 2.26	105.54 \pm 2.72

1,2,3,4,6-Penta- <i>O</i> -galloyl- β -D-glucose (14)	69.04 \pm 1.52	84.50 \pm 2.41	103.47 \pm 2.70	117.93 \pm 3.85	123.67 \pm 3.45
6- <i>O</i> -Galloyl-2,3- <i>O</i> -(<i>S</i>)- hexahydroxydiphenoyl-D-glucose (15)	55.54 \pm 1.94	66.08 \pm 1.69	78.50 \pm 1.66	86.07 \pm 1.30	103.55 \pm 1.84
Praecoxin B (16)	60.17 \pm 1.94	71.28 \pm 2.13	83.71 \pm 1.30	100.07 \pm 2.67	113.50 \pm 3.52
Pterocarinin C (17)	68.30 \pm 1.46	84.35 \pm 2.34	93.73 \pm 2.48	110.16 \pm 3.58	115.00 \pm 3.50
Casuarinin (18)	60.26 \pm 1.56	72.08 \pm 2.30	85.00 \pm 1.87	87.55 \pm 1.34	105.10 \pm 2.34
3'- <i>O</i> -Methyl-3,4-methylenedioxyellagic acid 4'- <i>O</i> - β -D-glucopyranoside (19)	50.25 \pm 2.34	54.42 \pm 1.25	58.10 \pm 1.49	59.64 \pm 2.34	68.55 \pm 1.36
3,3',4-Tri- <i>O</i> -methylellagic acid 4'- <i>O</i> - β -D- glucopyranoside (20)	54.46 \pm 1.79	56.69 \pm 1.79	59.66 \pm 1.73	69.07 \pm 1.81	75.36 \pm 2.30
Gallic acid (21)	46.70 \pm 3.12	49.98 \pm 3.38	53.82 \pm 2.38	65.93 \pm 2.52	64.52 \pm 1.26
Gallic acid methyl ester (22)	46.91 \pm 1.30	54.13 \pm 1.24	60.31 \pm 1.95	61.73 \pm 0.83	77.15 \pm 2.15
Catechin (Positive Control)	60.27 \pm 1.64	69.37 \pm 2.19	78.12 \pm 1.28	82.61 \pm 0.68	95.16 \pm 2.22