

Supplementary Material

Table S1. Determining the effect of salubrinol and zVADfmk in stressed dDCNs.

	Mean not treated	Mean salubrinol	Mean zVADfmk	Mean 6OHDA	Mean 6OHDA & zVADfmk	Mean 6OHDA & salubrinol	Mean 6OHDA & salubrinol & zVADfmk
Mean of Assay 1	1.98	1.87	1.89	0.65	1.18	1.50	1.82
Mean of Assay 2	1.85	1.75	1.76	0.56	1.06	1.51	1.68
Mean of Assay 3	2.05	1.94	1.99	0.61	1.08	1.55	1.84
Mean of All Assays	1.96	1.85	1.88	0.61	1.11	1.52	1.78
Mean of All Assays %	100	94	96	31	56	78	91
SD	0.10	0.09	0.11	0.05	0.06	0.03	0.09
(n)	3.00	3.00	3.00	3.00	3.00	3.00	3.00
SQR	1.73	1.73	1.73	1.73	1.73	1.73	1.73
SE	0.06	0.05	0.07	0.03	0.04	0.02	0.05
SE %	5.74	5.47	6.59	2.67	3.58	1.68	5.07
T Test					0.001	0.00004	0.00012

Table S2. Determining if caspase-2 is active in ER stress pathway in 6OHDA-treated dDCNs.

	Mean untreated	Mean salubrinol	Mean zVADfmk	Mean 6OHDA	Mean 6OHDA & salubrinol	Mean 6OHDA & zVADfmk	Mean 6OHDA & salubrinol & zVADfmk
Mean of Assay 1	2.08	2.13	2.10	0.65	1.44	1.52	1.51
Mean of Assay 2	2.18	2.19	2.14	0.55	1.27	1.39	1.52
Mean of Assay 3	2.12	2.11	2.15	0.73	1.46	1.35	1.48
Mean of All Assays	2.13	2.14	2.13	0.64	1.39	1.42	1.50
Mean of All Assays %	100	101	100	30	65	67	71
SD	0.048	0.041	0.027	0.087	0.104	0.090	0.023
(n)	3	3	3	3	3	3	3
SQR	1.73	1.73	1.73	1.73	1.73	1.73	1.73
SE	0.028	0.023	0.016	0.050	0.060	0.052	0.013
SE %	2.755	2.348	1.557	5.031	6.026	5.214	1.313
T Test					0.001	0.0004	0.002
						0.716	
						0.199	0.257

Table S3. : Determining the Amount of caspase-2 in Salubrinol + 6OHDA-treated dDCNs.

	Mean untreated	Mean salubrinol	Mean 6OHDA	Mean 6OHDA & salubrinol
Caspase-2 Assay 1	1.069	0.000	1.702	0
Caspase-2 Assay 2	1.117	0.000	1.604	0
Caspase-2 Assay 3	0.959	0.000	1.746	0
Caspase-2 Assay 4	0.529	0.000	1.529	0
Caspase-2 Assay 5	0.421	0.000	2.416	0
Mean of All Assays	0.819	0.000	1.799	0.000
Mean of All Assays %	100	0	220	0
SD	0.321	0.000	0.355	0.000

SD (%)	32.13	0.00	35.48	0.00
T Test			0.02	

Table S4. Determining if caspase-4 is active in ER stress pathway in 6OHDA-treated dDCNs.

	Mean untreated	Mean salubrintal	Mean zLEVDFmk	Mean 6OHDA	Mean 6OHDA & salubrintal	Mean 6OHDA & zLEVDFmk	Mean 6OHDA & salubrintal & zLEVDFmk
Mean of Assay 1	2.03	2.02	2.10	0.72	1.43	1.22	1.57
Mean of Assay 2	2.03	2.07	2.11	0.67	1.38	1.26	1.61
Mean of Assay 3	2.04	2.05	2.06	0.60	1.36	1.17	1.54
Mean of All Assays	2.03	2.05	2.09	0.66	1.39	1.22	1.57
Mean of All Assays %	100	101	103	33	68	60	77
SD	0.010	0.025	0.025	0.059	0.036	0.045	0.036
(n)	3	3	3	3	3	3	3
SQR	1.73	1.73	1.73	1.73	1.73	1.73	1.73
SE	0.006	0.014	0.015	0.034	0.021	0.026	0.021
SE %	0.585	1.437	1.461	3.391	2.101	2.578	2.057
T Test					0.0002	0.0003	0.0001
					0.007		
						0.004	0.001

Table S5. Determining the amount of caspase-4 in salubrintal-treated 6OHDA dDCNs.

	Mean untreated	Mean salubrintal	Mean 6OHDA	MEAN 6OHDA & SALUBRINAL
Caspase-4 Assay 1	1.117	1.100	1.520	0.978
Caspase-4 Assay 2	0.942	0.965	1.356	1.057
Caspase-4 Assay 3	1.164	1.134	1.468	1.576
Caspase-4 Assay 4	0.586	1.637	2.545	3.223
Caspase-4 Assay 5	1.117	0.657	1.348	1.295
Mean of All Assays	0.985	1.099	1.647	1.626
Mean of All Assays %	100	112	167	165
SD	0.239	0.355	0.507	0.325
SD (%)	23.89	35.50	50.71	32.51
T Test			0.04	0.965

Table S6. Determining if caspase-8 is active in ER stress pathway of 6OHDA-treated dDCNs.

	Mean Untreated	Mean salubrintal	Mean zIETD fmk	Mean 6OHDA	Mean 6OHDA & zIETDfmk	Mean 6OHDA & salubrintal	MeanN 6OHDA & salubrintal & zIETDfmk
Mean of Assay 1	2.14	2.14	2.15	0.67	1.48	1.26	1.76
Mean of Assay 2	2.16	2.12	2.12	0.67	1.51	1.32	1.78
Mean of Assay 3	1.99	2.04	2.10	0.67	1.57	1.36	1.83
Mean of All Assays	2.10	2.10	2.12	0.67	1.52	1.31	1.79
Mean of All Assays %	100	100	101	32	72	63	85
SD	0.09	0.05	0.02	0.00	0.05	0.05	0.04
(n)	3	3	3	3	3	3	3
SQR	1.73	1.73	1.73	1.73	1.73	1.73	1.73
SE	0.05	0.03	0.01	0.00	0.03	0.03	0.02

SE %	5.39	2.78	1.35	0.20	2.74	3.00	2.10
T Test					0.001	0.002	0.0003
					0.007		
						0.002	0.0004

Table S7. Determining the Amount of Caspase-8 in Salubrinal + 6OHDA-treated dDCNs.

	Mean untreated	Mean salubrinal	Mean 6OHDA	Mean 6OHDA &salubrinal
Caspase-8 Assay 1	0.970	0.945	1.876	1.359
Caspase-8 Assay 2	0.980	1.082	1.336	2.154
Caspase-8 Assay 3	0.912	0.968	1.473	1.520
Caspase-8 Assay 4	0.871	0.830	1.954	2.373
Active Caspase-8 Assay 5	0.974	1.485	1.861	1.543
Mean of All Assays	0.941	1.062	1.700	1.790
Mean of All Assays %	100	113	181	190
SD	0.048	0.253	0.276	0.445
SD (%)	4.79	25.28	27.63	44.49
T Test			0.003	0.713