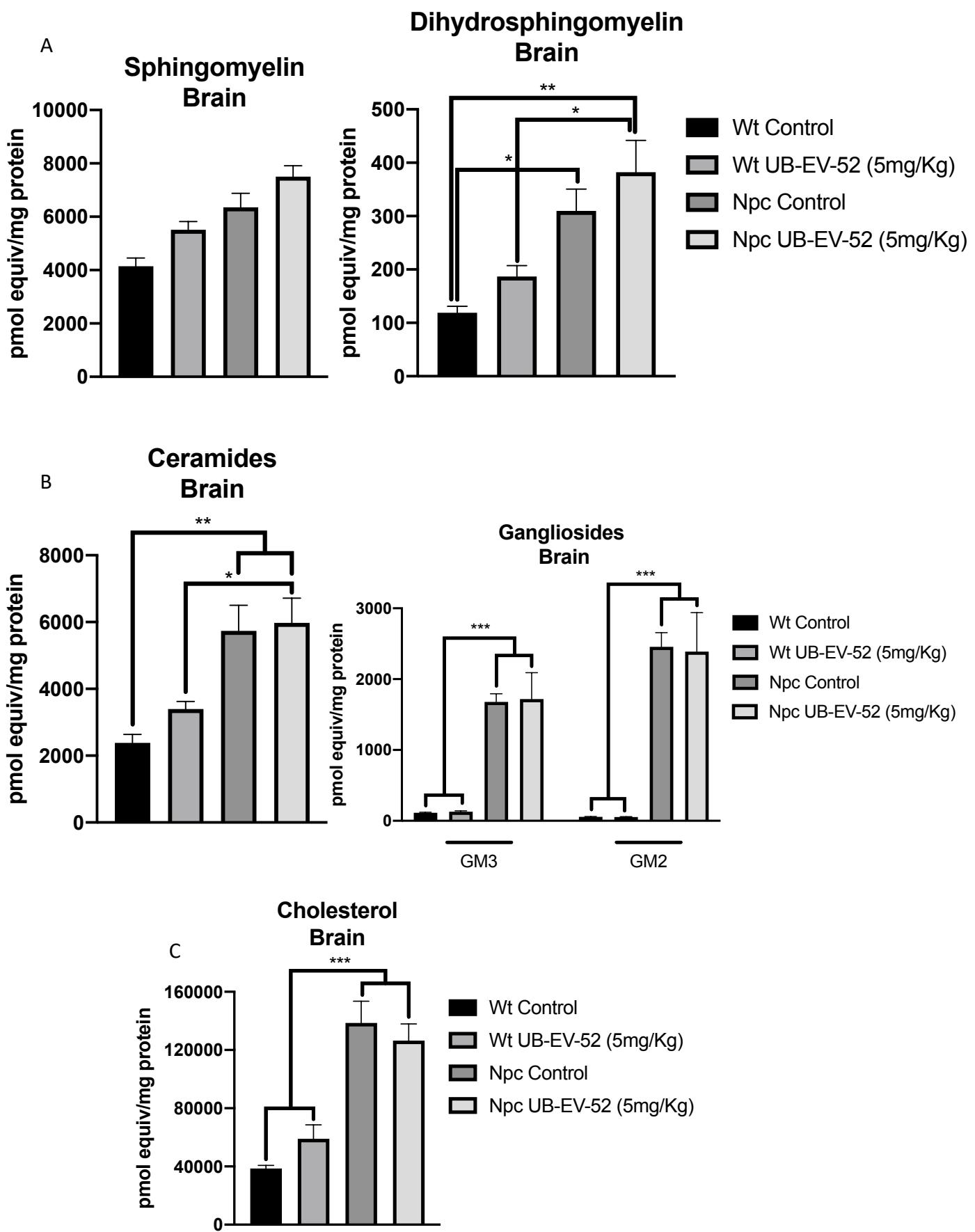


Supplementary Figure S1



Supplementary Figure S2

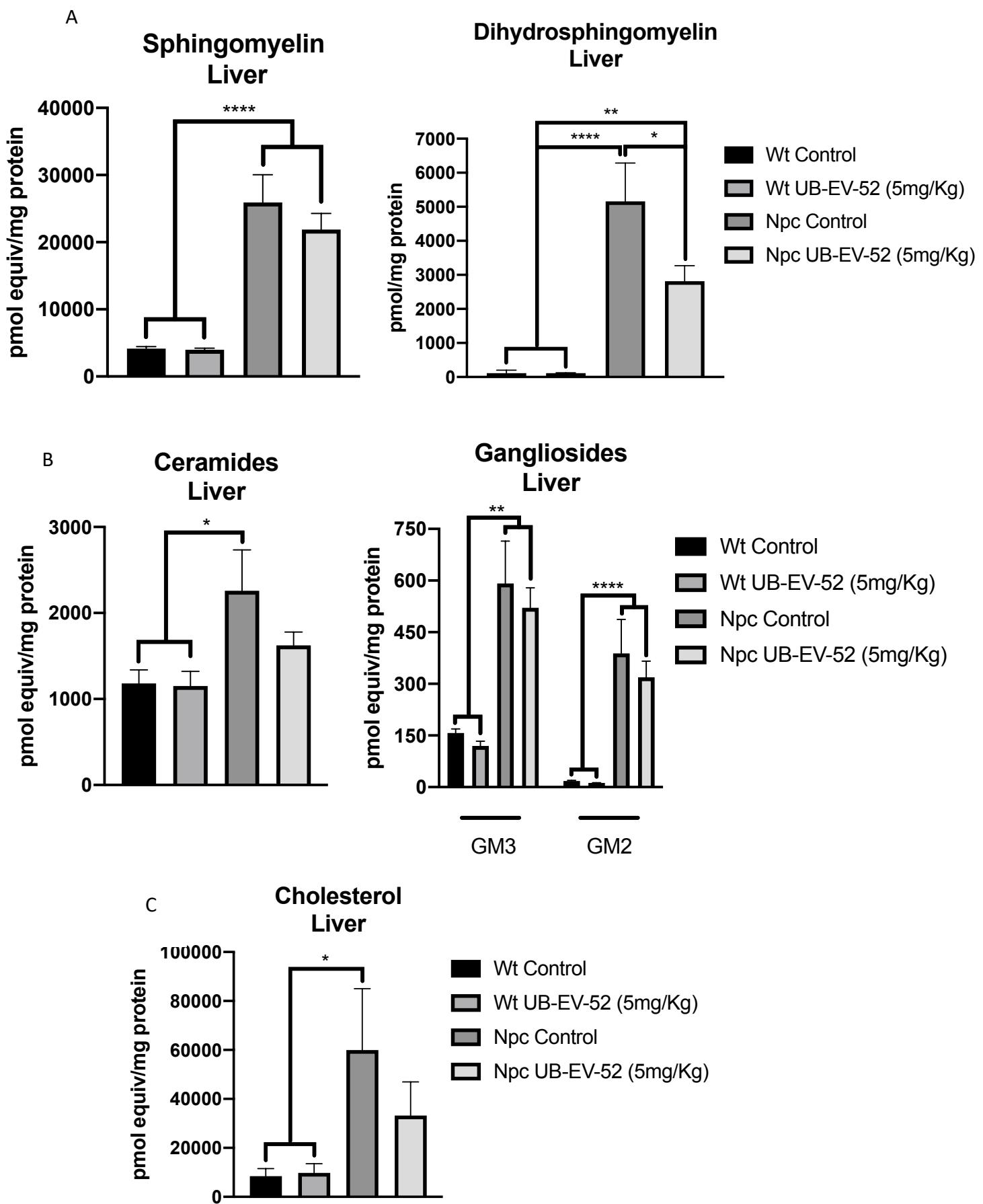


Table S1. Parameters measured in the Open Field Test (OFT). (n): number of events. Results are expressed as a mean \pm Standard error of the mean (SEM). **p <0.01; ***p <0.0001 vs Wt Control. #p <0.05 vs Npc Control.

	Wt Control	Wt UB-EV-52 (5mg/Kg)	Npc Control	Npc UB-EV-52 (5mg/Kg)
Locomotor activity (cm)	3,447.65 \pm 248.64	3,584.27 \pm 219.79	1,359.70 \pm 121.98****	1,832.89 \pm 152.47****,#
Distance in zone-Center (cm)	65.72 \pm 10.01	76.73 \pm 10.70	106.64 \pm 1.53****	93.78 \pm 8.75**,#
Distance in zone-Periphery (com)	3,148.03 \pm 193.09	3,298.81 \pm 162.98	1,410.80 \pm 120.00****	1,802.90 \pm 135.98****,#
Rearings (n)	36.30 \pm 6.68	43.80 \pm 2.97	17.25 \pm 5.20	16.38 \pm 2.65
Grommings (n)	2.30 \pm 0.52	3.80 \pm 0.42	0.75 \pm 0.31****	1.63 \pm 0.26****
Defecations (n)	0.70 \pm 0.26	0.50 \pm 0.22	0.38 \pm 0.18	0.50 \pm 0.27
Urinations (n)	0.30 \pm 0.15	0.50 \pm 0.22	0.25 \pm 0.16	0.38 \pm 0.18

Table S2. Parameters measured in the Elevated Plus Maze Test (EPM). (n): number of events. Results are expressed as a mean \pm Standard error of the mean (SEM). **p <0.01; ***p<0.001; ****p <0.0001 vs Wt Control. #p <0.05; ##p <0.01 vs Npc Control.

	Wt Control	Wt UB-EV-52 (5mg/Kg)	Npc Control	Npc UB-EV-52 (5mg/Kg)
Total Distance (cm)	1,492.94 \pm 85.63	1,386.85 \pm 66.07	896.92 \pm 102.80***	1,057.12 \pm 96.57**
Time in Center Zone (sec)	3.87 \pm 0.38	4.25 \pm 0.41	17.72 \pm 1.85	14.12 \pm 1.07
Time in Open Arms (sec)	10.74 \pm 1.68	11.25 \pm 0.87	8.39 \pm 1.05	11.65 \pm 5.18
Time in Closed Arms (sec)	85.39 \pm 1.88	84.50 \pm 0.98	73.87 \pm 2.73	73.30 \pm 6.16
Rearings (n)	54.10 \pm 3.72	44.90 \pm 2.54	8.50 \pm 0.91****	19.88 \pm 2.97****,##
Defecations (n)	0.30 \pm 0.15	0.60 \pm 0.22	0.88 \pm 0.30	0.88 \pm 0.48
Urinations (n)	0.30 \pm 0.15	0.00 \pm 0.00*	0.25 \pm 0.16	0.00 \pm 0.00*,#

Table S3. Antibodies used in Western blot studies.

Antibody	Host	Source/Catalog	WB dilution
Beclin-1	Rabbit	Cell signaling/#3738	1:1000
SYN	Rabbit	Dako/CloneSY38	1:2000
PSD95	Rabbit	Abcam/ab18258	1:1000
LC3B	Rabbit	Cell signaling/#2775S	1:1000
LAMP-1	Mouse	Santa Cruz/sc-19992	1:1000
Caspase-3	Rabbit	BD Transduction Laboratories/C31720	1:1000
Actin	Mouse	Sigma-Aldrich/A5441	1:2000
GAPDH	Mouse	Millipore/MAB374	1:5000
Goat-anti-mouse HRP conjugated		Biorad/170-5047	1:2000
Goat-anti-rabbit HRP conjugated		Biorad/170-6515	1:2000

Table 4. Primers and probes used in qPCR studies.

SYBR Green primers

Target	Product size (bp)	Forward primer (5'-3')	Reverse primer (5'-3')
<i>Hmox1</i>	177	TGACACCTGAGGTCAAGCAC	GTCTCTGCAGGGCAGTATC
<i>Tnf-α</i>	157	TCGGGGTGATCGGTCCCCAA	TGGTTTGCTACGACGTGGGCT
<i>IL-1β</i>	179	ACAGAATATCAACCAACAAGTGATATTCTC	GATTCTTCCTTGAGGCCA
<i>Mcp1</i>	159	CCCACTCACCTGCTGCTACT	TCTGGACCCATTCCCTCTG
<i>iNOS</i>	189	GGCAGCCTGTGAGACCTTTG	GAAGCGTTCGGGATCTGAA
<i>Gfap</i>	125	CCTTCTGACACGGATTGKT	ACATCGAGATGCCACCTAC
<i>β-actin</i>	190	CAACGAGCGGTTCCGAT	GCCACAGGTTCCATACCCA