

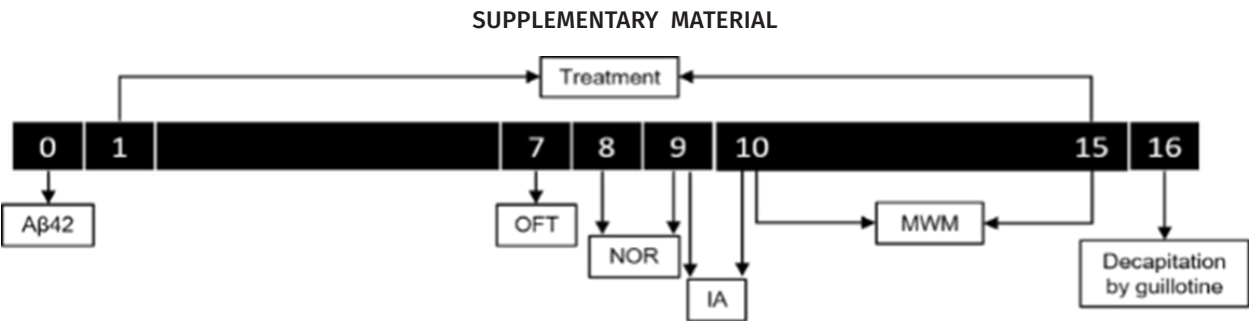


Figure S1. Experimental protocol schedule, with the treatment and behavioral tests period. (OFT: open-field test, NOR: novel object test, IA: inhibitory avoidance test, MWM: Morris Water Maze). After the end of behavioral testing, mice were sacrificed by decapitation and the hippocampus was dissected for subsequent biochemical analysis.

Table SI. Locomotor and exploratory behavior of mice on Open Field Test.

Groups	Crossing	Rearing
Naïve	113.0 ± 22.1	54.1 ± 13.9
Sham	120.0 ± 13.8	63.9 ± 16.3
Control	140 ± 29.9	56.0 ± 12.0
TAC	96.4 ± 23.7**	48.3 ± 7.03
TD1	128.0 ± 12.4	63.3 ± 11.4
TD2	115.0 ± 27.2	59.1 ± 13.3
TD3	119.0 ± 15.2	66.3 ± 17.8
TD4	107.0 ± 11.2*	52.4 ± 16.4

Means ± SD of crossing and rearing of mice in the open field test. n = 8 per group. One-way ANOVA, Tukey's post hoc test: * p < 0.05 and ** p < 0.01 compared to the Control group (vehicle-treated mice).

Table SII. Permeability Values from the PAMPA-BBB Assay Pe (10-6 cm/s) of compounds.

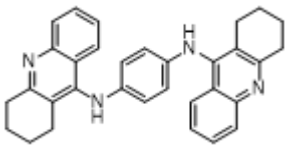
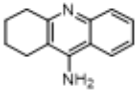
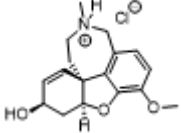
Compound	Structure	PAMPA-BBB	
		Pe (10-6 cm/s)	Prediction
TD4		9.2 ± 0.7	cns +
TAC		5.3 ± 0.1	cns +
GAL		4.7 ± 0.1	cns +

Table SIII. Effects of treatments on the levels of GSH, LOOH, and activities of SOD, and MPO in the hippocampus of mice.

Groups	GSH mg/mg of tissue	SOD U/mg of protein	LOOH μmol/mg of tissue	MPO mOD/mg of protein
Naïve	57.3 ± 4.7	0.234 ± 0.036	5.31 ± 1.56	0.668 ± 0.163
Sham	50.9 ± 1.5	0.221 ± 0.018	5.33 ± 0.74	0.603 ± 0.105
Control	36.3 ± 2.5b	0.327 ± 0.012b	16.70 ± 3.81b	0.898 ± 0.647a
TAC	36.5 ± 4.1b	0.331 ± 0.001b	16.00 ± 3.50 b	0.926 ± 0.151b
TD1	44.6 ± 5.9c	0.325 ± 0.001b/ns	17.00 ± 3.13 b /ns	0.630 ± 0.119c
TD2	51.4 ± 2.3c	0.229 ± 0.001c	17.90 ± 4.09 b/ns	0.584 ± 0.321c
TD3	51.5 ± 2.8c	0.221 ± 0.001c	20.50 ± 5.93 b/ns	0.562 ± 0.646c
TD4	54.5 ± 5.2c	0.218 ± 0.001c	4.61 ± 0.52c	0.621 ± 0.526c
Means ±SD of analyses of GSH levels, SOD activity, LOOH levels, and MPO activity. One-way ANOVA, Tukey's post hoc test: ap<0.05 and bp<0.001 when compared to naïve; cp<0.001 when compared to TAC. ns no significance compared to TAC.				