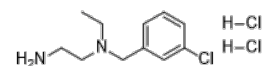


Product Name : FP802 hydrochloride
Cat. No. : PC-25963
CAS No. : 2490401-57-3
Molecular Formula : C₁₁H₁₉Cl₃N₂
Molecular Weight : 285.64
Target : iGluR
Solubility : 10 mM in DMSO



CAS: 2490401-57-3

Biological Activity

FP802 hydrochloride is a potent neuroprotectant and small molecule inhibitor of TwinF interface, shows selective elimination of eNMDAR-mediated toxicity via disruption of the NMDAR/TRPM4 death signaling complex, while sparing the vital physiological functions of synaptic NMDARs.

FP802 displays potent protective activity against glutamate-mediated neurotoxicity with IC₅₀ of 8.7 μM for analysis of the percentage of nuclear mCherry-positive neurons.

FP802 eliminates the transcriptional shut-off induced by eNMDARs and boosts the NMDA bath application-induced expression of the immediate-early genes (IEGs) Atf3, Arc, Bdnf, cFos, Inhibin beta A, and Npas4.

FP802 does not block NMDARs expressed heterologously in HEK293 cells (IC₅₀ > 250 μM for both, GluN1/GluN2A and GluN1/GluN2B).

FP802 (40 mg/kg/day) improves motor performances, extends lifespan, and prevents motor neuron loss in SOD1G93A mice. FP802 protects human brain organoids generated using iPSCs from ALS patients or healthy controls against NMDA-induced neurotoxicity.

References

Jing Yan, et al. Cell Rep Med. 2024 Feb 20;5(2):101413.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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