

FP802 2HCl

Chemical Properties

CAS No. : 2490401-57-3

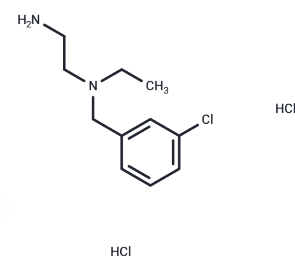
Formula: C₁₁H₁₉Cl₃N₂

Molecular Weight: 285.64

Store at low temperature

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	FP802 2HCl is an orally active TwinF interface inhibitor with neuroprotective effects. It disrupts the toxicity of the NMDAR/TRPM4 death complex to selectively eliminate eNMDAR-mediated toxicity, suitable for studying Alzheimer's disease (AD) and amyotrophic lateral sclerosis (ALS).
Targets(IC50)	NMDAR,TRP/TRPV Channel
In vitro	FP802 2HCl (8 μ M, 24-72 hours) can effectively dissociate the NMDAR/TRPM4 complex and exert neuroprotective effects in cellular models, though FP802 itself neither directly promotes nor inhibits neurite outgrowth [1]. FP802 2HCl (10 μ M, 30 minutes) significantly counteracts the neurotoxicity induced by pennisetum glaucum (20 μ M), with an IC ₅₀ of 8.7 μ M, while restoring NMDA-suppressed immediate early gene expression levels to physiological conditions [2].
In vivo	FP802 2HCl was administered orally at doses of 10 mg/kg and 40 mg/kg once daily for 4 months, which improved cognitive function in 5xFAD mice, effectively prevented neuronal degeneration, and reduced amyloid pathology in the brain [1]. FP802 2HCl was administered subcutaneously at a dose of 40 mg/kg once daily, starting approximately at week 15, for 4 consecutive weeks. By targeting the NMDAR/TRPM4 complex, it safely delayed the progression of motor neuron degeneration in ALS model mice and significantly extended their survival time [2].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.5009 mL	17.5046 mL	35.0091 mL
5 mM	0.7002 mL	3.5009 mL	7.0018 mL
10 mM	0.3501 mL	1.7505 mL	3.5009 mL
50 mM	0.070 mL	0.3501 mL	0.7002 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Yan J, et al. The NMDAR/TRPM4 death complex is a major promoter of disease progression in the 5xFAD mouse model of Alzheimer's disease. *Mol Psychiatry*. 2025 Aug 26.

Yan J, et al. TwinF interface inhibitor FP802 stops loss of motor neurons and mitigates disease progression in a mouse model of ALS. *Cell Rep Med*. 2024 Feb 20;5(2):101413.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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