

TP-050

Chemical Properties

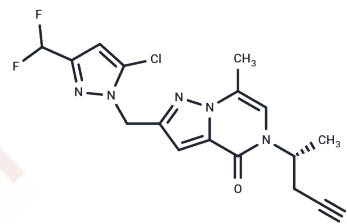
CAS No. : 3085030-47-0

Formula: C₁₆H₁₅ClF₂N₆O

Molecular Weight: 380.78

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	TP-050 is a chemical probe, which has oral activity and selectively acts on NMDAR. The EC ₅₀ of GluN2A and GluN2D are 0.51 μM and 9.6 μM respectively, and it can penetrate the blood-brain barrier. TP-050 can induce long-term potentiation effect (LTP) in hippocampus, thus promoting neuronal signal transmission.
Targets(IC50)	iGluR

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6262 mL	13.1309 mL	26.2619 mL
5 mM	0.5252 mL	2.6262 mL	5.2524 mL
10 mM	0.2626 mL	1.3131 mL	2.6262 mL
50 mM	0.0525 mL	0.2626 mL	0.5252 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

Sakurai F, et, al. Discovery of Pyrazolo[1,5-a]pyrazin-4-ones as Potent and Brain Penetrant GluN2A-Selective Positive Allosteric Modulators Reducing AMPA Receptor Binding Activity. Bioorg Med Chem. 2022 Feb 15;56: 116576.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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