

GNE-0723

Chemical Properties

CAS No. : 1883518-31-7

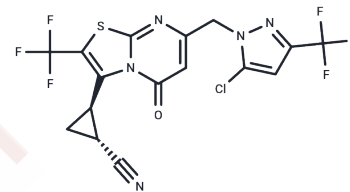
Formula: C₁₆H₈ClF₆N₅O₅

Molecular Weight: 467.78

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	GNE-0723 is a selective positive allosteric modulator of the NMDA receptor, with an EC ₅₀ of 21 nM for GluN2A. It can cross the blood-brain barrier (BBB) and improve outcomes in Dravet syndrome (DS) and Alzheimer's disease (AD).
Targets(IC ₅₀)	NMDAR,iGluR
In vitro	GNE-0723 is a brain-permeable NMDAR positive allosteric modulator with EC ₅₀ of 21 nM/7.4μM/6.2 μM for GluN2A/2C/2D. [1]

Solubility Information

Solubility	DMSO: 160 mg/mL (342.04 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1378 mL	10.6888 mL	21.3776 mL
5 mM	0.4276 mL	2.1378 mL	4.2755 mL
10 mM	0.2138 mL	1.0689 mL	2.1378 mL
50 mM	0.0428 mL	0.2138 mL	0.4276 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

Villemure E, et al. GluN2A-Selective Pyridopyrimidinone Series of NMDAR Positive Allosteric Modulators with an Improved in Vivo Profile. ACS Med Chem Lett. 2016 Oct 31;8(1):84-89.

Li J, Yu G, Wang L, et al. Enriched environment rescues bisphenol A induced anxiety-like behavior and cognitive impairment by modulating synaptic plasticity. Ecotoxicology and Environmental Safety. 2025, 289: 117427.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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