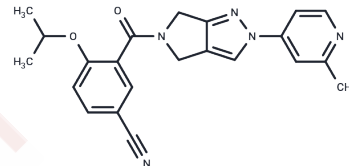


GlyT1 Inhibitor 1

Chemical Properties

CAS No. :	1820934-93-7
Formula:	C ₂₂ H ₂₁ N ₅ O ₂
Molecular Weight:	387.43
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	GlyT1 Inhibitor 1 is a selective and potent GlyT1 inhibitor, inhibiting rGlyT1, used in research on neurological disorders.
Targets(IC50)	GlyT
In vitro	GlyT1 Inhibitor 1 is a potent and selective GlyT1 inhibitor that inhibits rGlyT1 with an IC50 of 38 nM. [1]
In vivo	Increase of GlyT1 Inhibitor 1 (10 mg/kg, oral) in cerebrospinal fluid (CSF) of rats. [1]

Solubility Information

Solubility	DMSO: 20 mg/mL (51.62 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	2.5811 mL	12.9056 mL	25.8111 mL
5 mM	0.5162 mL	2.5811 mL	5.1622 mL
10 mM	0.2581 mL	1.2906 mL	2.5811 mL
50 mM	0.0516 mL	0.2581 mL	0.5162 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

Santora VJ, et al. Design and Synthesis of Novel and Selective Glycine Transporter-1 (GlyT1) Inhibitors with Memory Enhancing Properties. J Med Chem. 2018 Jul 26;61(14):6018-6033.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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