

NFPS

Chemical Properties

CAS No.:	405225-21-0
Formula:	C ₂₄ H ₂₄ FNO ₃
Molecular Weight:	393.45
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	NFPS exerts neuroprotection via glyR alpha1 subunit in the rat model of transient focal cerebral ischaemia and reperfusion. NFPS is a selective and non-competitive glycine transporter-1 (GlyT1) inhibitor (IC ₅₀ s: 2.8 nM and 9.8 nM for hGlyT1 and rGlyT1, respectively).
Targets(IC ₅₀)	hGlyT1: 2.8 nM rGlyT1: 9.8 nM

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.542 mL	12.708 mL	25.416 mL
5 mM	0.508 mL	2.542 mL	5.083 mL
10 mM	0.254 mL	1.271 mL	2.542 mL
50 mM	0.051 mL	0.254 mL	0.508 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Mallorga PJ, et al. Pharmacology and expression analysis of glycine transporter GlyT1 with [3H]-(N-[3-(4'-fluorophenyl)-3-(4'-phenylphenoxy)propyl])sarcosine. *Neuropharmacology*. 2003 Oct;45(5):585-93.
2. Huang B, et al. GlyT1 Inhibitor NFPS Exerts Neuroprotection via GlyR Alpha1 Subunit in the Rat Model of Transient Focal Cerebral Ischaemia and Reperfusion. *Cell Physiol Biochem*. 2016;38(5):1952-62.

Inhibitors · Natural Compounds · Compound Libraries

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