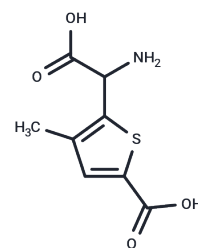


3-MATIDA

Chemical Properties

CAS No. :	518357-51-2
Formula:	C ₈ H ₉ NO ₄ S
Molecular Weight:	215.23
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	3-MATIDA is an effective mGluR-1 antagonist (IC ₅₀ : 6.3 μ M, rat mGluR-1a). Displays \geq 40-fold selectivity over other receptors: mGluR-5, mGluR-2, mGluR-4 (mGluR-4a) (IC ₅₀ > 300 μ M), NMDA and GluR (AMPA) (IC ₅₀ = 250 μ M). 3-MATIDA act as a neuroprotectant in cultured murine cortical cells and rat hippocampal slice cultures in vitro.
Targets(IC ₅₀)	GluR,NMDAR

Solubility Information

Solubility	DMSO: 2.15 mg/mL (10 mM),Sonication is recommended. 1eq. NaOH: 50 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	4.6462 mL	23.231 mL	46.4619 mL
5 mM	0.9292 mL	4.6462 mL	9.2924 mL
10 mM	0.4646 mL	2.3231 mL	4.6462 mL
50 mM	0.0929 mL	0.4646 mL	0.9292 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.

Reference

Moroni, F., et al. The novel and systemically active metabotropic glutamate 1 (mGlu1) receptor antagonist 3-MATIDA reduces post-ischemic neuronal death. *Neuropharmacology*. 2002. *Neuropharmacology*. 42: 741-751.
Cozzi, A., et al. 2002. *Neuropharmacology*. 43: 119-130.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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