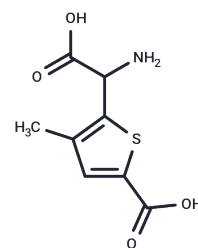


3-MATIDA

Chemical Properties

CAS No. :	518357-51-2
Formula:	C ₈ H ₉ NO ₄ S
Molecular Weight:	215.23
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	3-MATIDA is an effective mGluR-1 antagonist (IC ₅₀ : 6.3 μM, rat mGluR-1a). Displays ≥ 40-fold selectivity over other receptors: mGluR-5, mGluR-2, mGluR-4 (mGluR-4a) (IC ₅₀ > 300 μM), NMDA and GluR (AMPA) (IC ₅₀ = 250 μM). 3-MATIDA act as a neuroprotectant in cultured murine cortical cells and rat hippocampal slice cultures in vitro.
Targets(IC ₅₀)	Others,GluR,NMDAR

Solubility Information

Solubility	DMSO: 2.16 mg/mL (10.04 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.

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

- 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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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481