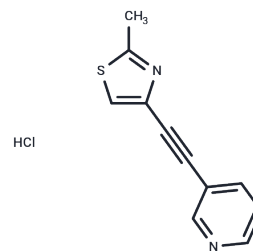


MTEP hydrochloride

Chemical Properties

CAS No. :	1186195-60-7
Formula:	C ₁₁ H ₉ ClN ₂ S
Molecular Weight:	236.72
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	MTEP hydrochloride (MTEP) is non-competitive mGlu5 antagonist (IC ₅₀ and K _i of 5 nM and 16 nM, respectively)
Targets(IC ₅₀)	GluR
In vivo	Male Albino Swiss mice were used, and antidepressant-like activity was evaluated using the FST. The antidepressant-like effect of MTEP (0.3 mg/kg) was significantly antagonized by pre-treatment with the NMDA receptor agonist N-methyl-D-aspartic acid (NMDA, 75 mg/kg)[1].

Solubility Information

Solubility	H ₂ O: 20 mg/mL (84.49 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	4.2244 mL	21.122 mL	42.244 mL
5 mM	0.8449 mL	4.2244 mL	8.4488 mL
10 mM	0.4224 mL	2.1122 mL	4.2244 mL
50 mM	0.0845 mL	0.4224 mL	0.8449 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

NMDA but not AMPA glutamatergic receptors are involved in the antidepressant-like activity of MTEP during the forced swim test in mice[J]. Pharmacological Reports, 2010, 62(6):1186-1190.

Neuroprotective potential of mGluR5 antagonist MTEP: effects on kainate-induced excitotoxicity in the rat hippocampus[J]. Pharmacological Reports, 2010, 62(6):1051-1061.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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