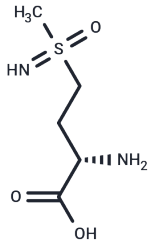
Data Sheet (Cat.No.T41299)

TargetMol

L-Methionine-DL-sulfoximine

Chemical Properties



CAS No. : 15985-39-4

Formula: C5H12N2O3S

Molecular Weight: 180.23

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	L-Methionine-DL-sulfoximine (MSO) inhibits glutamine synthetase and metabolically and morphologically primarily affects astroglia. L-Methionine-DL-sulfoximine can be used in convulsant studies.
Targets(IC50)	Others,Glutaminase

Solubility Information

Solubility	H2O: 47.73 mg/mL (264.83 mM),Sonication is recommended. DMSO: < 1.8 mg/mL (10 mM, insoluble or slightly soluble) (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.5485 mL	27.7423 mL	55.4847 mL
5 mM	1.1097 mL	5.5485 mL	11.0969 mL
10 mM	0.5548 mL	2.7742 mL	5.5485 mL
50 mM	0.111 mL	0.5548 mL	1.1097 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

Premakumar R, Sorger GJ, Gooden D. Repression of nitrate reductase in Neurospora studied by using L-methionine-DL-sulfoximine and glutamine auxotroph gln-1b. J Bacteriol. 1980;143(1):411-415.

Albrecht J, Norenberg MD. L-methionine-DL-sulfoximine induces massive efflux of glutamine from cortical astrocytes in primary culture. Eur J Pharmacol. 1990;182(3):587-589.

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