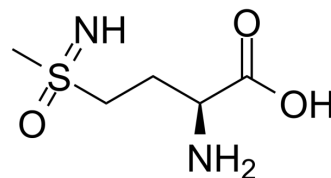


L-Methionine-DL-sulfoximine

Cat. No.:	HY-B1692		
CAS No.:	15985-39-4		
Molecular Formula:	C ₅ H ₁₂ N ₂ O ₃ S		
Molecular Weight:	180.23		
Target:	Others		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

H₂O : 50 mg/mL (277.42 mM; Need ultrasonic)
 DMSO : < 1 mg/mL (ultrasonic;warming;heat to 60°C) (insoluble or slightly soluble)

Preparing Stock Solutions	Solvent		Mass		
	Concentration		1 mg	5 mg	10 mg
	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

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: PBS
 Solubility: 100 mg/mL (554.85 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

L-Methionine-DL-sulfoximine (MSX) is an inhibitor of glutamine synthetase. L-Methionine-DL-sulfoximine is also a potent convulsant which metabolically and morphologically primarily affects astroglia.

REFERENCES

[1]. 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.

[2]. 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.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA