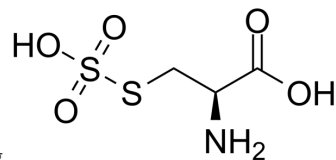


L-Cysteine S-sulfate

Cat. No.:	HY-113084
CAS No.:	1637-71-4
Molecular Formula:	C ₃ H ₇ NO ₅ S ₂
Molecular Weight:	201.22
Target:	Endogenous Metabolite; iGluR
Pathway:	Metabolic Enzyme/Protease; Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



SOLVENT & SOLUBILITY

In Vitro

H₂O : 250 mg/mL (1242.42 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	4.9697 mL	24.8484 mL	49.6968 mL
	5 mM	0.9939 mL	4.9697 mL	9.9394 mL
	10 mM	0.4970 mL	2.4848 mL	4.9697 mL

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

BIOLOGICAL ACTIVITY

Description

L-Cysteine S-sulfate is a potent N-methyl-d-aspartate (NMDA) glutamatergic receptor agonist. L-Cysteine S-sulfate is the substrate for cystine lyase, and can be used in mass spectrometry operations^{[1][2][3]}.

IC₅₀ & Target

NMDA Receptor

REFERENCES

- [1]. Steventon GB, et, al. Comparison of the sulfur-oxygenation of cysteine and S-carboxymethyl-L-cysteine in human hepatic cytosol and the rôle of cysteine dioxygenase. *J Pharm Pharmacol.* 2018 Aug;70(8):1069-1077.
- [2]. Macaluso V, et al. L-Cysteine Modified by S-Sulfation: Consequence on Fragmentation Processes Elucidated by Tandem Mass Spectrometry and Chemical Dynamics Simulations. *J Phys Chem A.* 2019 May 2;123(17):3685-3696.
- [3]. Elucidated by Tandem Mass Spectrometry and Chemical Dynamics Simulations. *J Phys Chem A.* 2019 May 2;123(17):3685-3696.

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