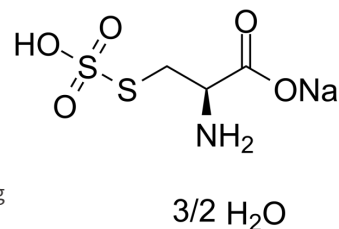


## L-Cysteine S-sulfate sodium hydrate

<b>Cat. No.:</b>	HY-45609
<b>CAS No.:</b>	150465-29-5
<b>Molecular Formula:</b>	C <sub>3</sub> H <sub>7</sub> NO <sub>5</sub> S <sub>2</sub> ·3/2H <sub>2</sub> O·Na
<b>Molecular Weight:</b>	251.24
<b>Target:</b>	Endogenous Metabolite; iGluR
<b>Pathway:</b>	Metabolic Enzyme/Protease; Membrane Transporter/Ion Channel; Neuronal Signaling
<b>Storage:</b>	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



### SOLVENT & SOLUBILITY

#### In Vitro

H<sub>2</sub>O : 125 mg/mL (497.53 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	3.9803 mL	19.9013 mL	39.8026 mL
	5 mM	0.7961 mL	3.9803 mL	7.9605 mL
	10 mM	0.3980 mL	1.9901 mL	3.9803 mL

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

### BIOLOGICAL ACTIVITY

#### Description

L-Cysteine S-sulfate sodium hydrate is a potent N-methyl-d-aspartate (NMDA) glutamatergic receptors agonist. L-Cysteine S-sulfate sodium hydrate is the substrate for cystine lyase, it can be used in mass spectrometry operations<sup>[1][2]</sup>.

### 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.

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

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