

D-Serine

Chemical Properties

CAS No. : 312-84-5

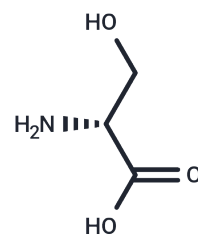
Formula: C₃H₇NO₃

Molecular Weight: 105.09

Keep away from direct sunlight

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	D-Serine ((R)-Serine), an endogenous amino acid, is a potent co-agonist at the NMDA glutamate receptor.
Targets(IC50)	Endogenous Metabolite,NMDAR,iGluR

Solubility Information

Solubility	DMSO: Insoluble, H ₂ O: 100 mg/mL (951.57 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	9.5157 mL	47.5783 mL	95.1565 mL
5 mM	1.9031 mL	9.5157 mL	19.0313 mL
10 mM	0.9516 mL	4.7578 mL	9.5157 mL
50 mM	0.1903 mL	0.9516 mL	1.9031 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

Dai X, et al. D-Serine made by serine racemase in Drosophila intestine plays a physiological role in sleep. Nat Commun. 2019 May 7;10(1):1986.

Suwandhi L, et al. Chronic d-serine supplementation impairs insulin secretion. Mol Metab. 2018 Oct;16:191-202.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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