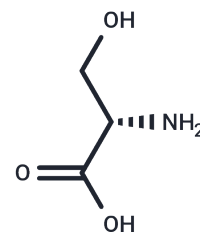


L-Serine

Chemical Properties

CAS No. :	56-45-1
Formula:	C ₃ H ₇ NO ₃
Molecular Weight:	105.09
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-Serine (serine) is a non-essential amino acid in humans, L-Serine is present and functionally important in many proteins. L-Serine is also found at the active site of the serine protease enzyme class that includes trypsin and chymotrypsin.
Targets(IC50)	Endogenous Metabolite, Antibacterial

Solubility Information

Solubility	DMSO: Insoluble, H ₂ O: 128.75 mg/mL (1225.14 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

de Koning TJ, et al. L-Serine in disease and development. *Biochem J.* 2003 May 1;371(Pt 3):653-61.

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