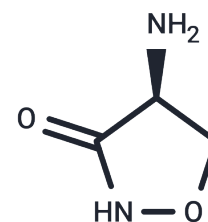


L-Cycloserine

Chemical Properties

CAS No. :	339-72-0
Formula:	C ₃ H ₆ N ₂ O ₂
Molecular Weight:	102.09
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	L-Cycloserine ((-)-Cycloserine) irreversibly inhibits GABA pyridoxal 5'-phosphate-dependent aminotransferase in E. coli, as well in the brains of various animals, results in increased levels of gamma-aminobutyric acid (GABA), which is an inhibitory neurotransmitter in vivo.
Targets(IC50)	HIV Protease,GABA Receptor

Solubility Information

Solubility	DMSO: 7.1 mg/mL (69.55 mM),Sonication is recommended. H ₂ O: Insoluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 0.71 mg/mL (6.95 mM),Solution. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 1 mg/mL (9.8 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	9.7953 mL	48.9764 mL	97.9528 mL
5 mM	1.9591 mL	9.7953 mL	19.5906 mL
10 mM	0.9795 mL	4.8976 mL	9.7953 mL
50 mM	0.1959 mL	0.9795 mL	1.9591 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

Noda M, et al. J Biol Chem. 2004 Oct 29;279(44):46143-52.

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