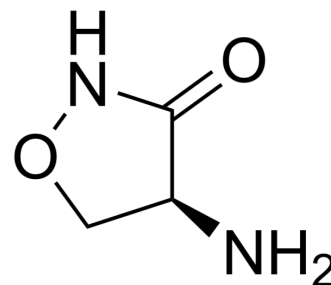


L-Cycloserine

Cat. No.:	HY-B1122		
CAS No.:	339-72-0		
Molecular Formula:	C ₅ H ₆ N ₂ O ₂		
Molecular Weight:	102.09		
Target:	GABA Receptor; HIV		
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling; Anti-infection		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

H₂O : 13.33 mg/mL (130.57 mM; Need ultrasonic)
 DMSO : 12.5 mg/mL (122.44 mM; Need ultrasonic)

	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	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

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

In Vivo

- Add each solvent one by one: PBS
Solubility: 100 mg/mL (979.53 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 1.25 mg/mL (12.24 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 1.25 mg/mL (12.24 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 1.25 mg/mL (12.24 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

L-Cycloserine ((S)-4-Amino-3-isoxazolidone) irreversibly inhibits GABA pyridoxal 5'-phosphate-dependent aminotransferase in *E. coli*, as well in the brains of various animals in a time-dependent manner, results in increased levels of gamma-aminobutyric acid (GABA), which is an inhibitory neurotransmitter in vivo.

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