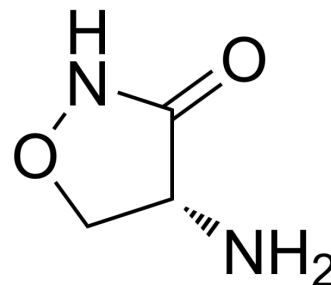


## D-Cycloserine (Standard)

<b>Cat. No.:</b>	HY-B0030R
<b>CAS No.:</b>	68-41-7
<b>Molecular Formula:</b>	C <sub>5</sub> H <sub>6</sub> N <sub>2</sub> O <sub>2</sub>
<b>Molecular Weight:</b>	102.09
<b>Target:</b>	Bacterial; Antibiotic; iGluR
<b>Pathway:</b>	Anti-infection; Membrane Transporter/Ion Channel; Neuronal Signaling
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### SOLVENT & SOLUBILITY

#### In Vitro

H<sub>2</sub>O : 25 mg/mL (244.88 mM; Need ultrasonic)  
DMSO : 1 mg/mL (9.80 mM; Need warming)

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

### BIOLOGICAL ACTIVITY

#### Description

D-Cycloserine (Standard) is the analytical standard of D-Cycloserine. This product is intended for research and analytical applications. D-Cycloserine is an antibiotic which targets sequential bacterial cell wall peptidoglycan biosynthesis enzymes. D-Cycloserine is a partial NMDA agonist that can improve cognitive functions. D-Cycloserine can be used for multidrug-resistant tuberculosis research<sup>[1][2]</sup>.

#### IC<sub>50</sub> & Target

NMDA Receptor

### CUSTOMER VALIDATION

- ACS Chem Biol. 2021 Dec 15.
- Exp Brain Res. 2023 Oct 16.
- Research Square Preprint. 2021 Aug.

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See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

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

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