



LKT Laboratories, Inc.

## D-Cycloserine

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### Product Information

**Product ID** C9610

**CAS No.** 68-41-7

**Chemical Name** D-4-Amino-3-isoxazolidinone

**Synonym** Closina, Farmiserina, Micoserina, Oxamycin, Seromycin.

**Formula** C<sub>3</sub>H<sub>6</sub>N<sub>2</sub>O<sub>2</sub>

**Formula Wt.** 102.09

**Melting Point** 155-156°C

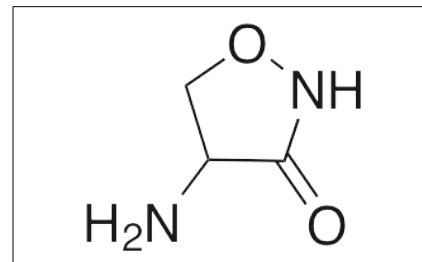
**Purity** ≥98%

**Solubility** Soluble in water. Slightly soluble in methanol or propylene glycol.

**Store Temp** 4°C

**Ship Temp** Ambient

**Description** D-Cycloserine is an antibiotic compound that exhibits antibacterial activity against *Mycobacterium tuberculosis*; it inhibits D-Ala-D-Ala ligase. Additionally, D-cycloserine acts as a glycine site partial agonist at NMDA receptors, enhancing memory and learning and potentially displaying antidepressant and cognition enhancing activities.



**Bulk quantities available upon request**

Product ID	Size
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C9610	250 mg
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C9610	1 g
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C9610	5 g
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**References** Dang YH, Ma XC, Zhang JC, et al. Targeting of NMDA Receptors in the Treatment of Major Depression. *Curr Pharm Des.* 2014 Jan 10. [Epub ahead of print]. PMID: 24410564.

Prosser GA, de Carvalho LP. Metabolomics Reveal d-Alanine:d-Alanine Ligase As the Target of d-Cycloserine in *Mycobacterium tuberculosis*. *ACS Med Chem Lett.* 2013 Dec 12;4(12):1233-1237. PMID: 24478820.

Portero-Tresserra M, Martí-Nicolovius M, Guillazo-Blanch G, et al. D-cycloserine in the basolateral amygdala prevents extinction and enhances reconsolidation of odor-reward associative learning in rats. *Neurobiol Learn Mem.* 2013 Feb;100:1-11. PMID: 23200640.

**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.