

Certificate of Analysis

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Product Name: D-Serine

Catalog No.: 0226

Batch No.: 14

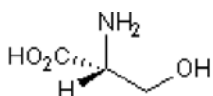
CAS Number: 312-84-5

EC Number: 206-229-4

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₃H₇NO₃
Batch Molecular Weight: 105.09
Physical Appearance: White solid
Solubility: water to 100 mM
Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon Hydrogen Nitrogen		
Theoretical	34.29	6.71	13.33
Found	34.28	6.71	13.29

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

D-Serine is a glycine agonist at the NMDA receptor. L-isomer also available.

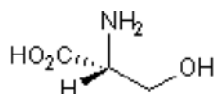
Physical and Chemical Properties:

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Batch Molecular Weight: 105.09

Physical Appearance: White solid

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

water to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Mothet *et al* (2000) D-serine is an endogenous ligand for the glycine site of the N-methyl-D-aspartate receptor. *Proc.Natl.Acad.Sci.USA* **97** 4926. PMID: 10781100.

Schell *et al* (1997) D-Serine as a neuromodulator: regional and developmental localizations in rat brain glia resemble NMDA receptors. *J. Neurosci.* **17** 1604. PMID: 9030620.

Lodge (1989) Non-competitive NMDA antagonists. *The NMDA Receptor (2nd edition)*. Eds. G.L.Colling 37.

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