

Certificate of Analysis

www.tocris.com

Product Name: L-Alanine

CAS Number: 56-41-7

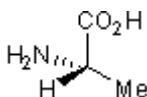
Catalog No.: 0205

EC Number: 200-273-8

Batch No.: 12

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₃H₇NO₂
Batch Molecular Weight: 89.09
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
Optical Rotation: [α]_D = +17.1 (Concentration = 2, Solvent = 6N HCl)
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	40.45	7.92	15.72
Found	40.53	7.85	15.85

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

Product Information

www.tocris.com

Product Name: L-Alanine

CAS Number: 56-41-7

Catalog No.: 0205

Batch No.: 12

EC Number: 200-273-8

Description:

Agonist at the inhibitory glycine receptor.

Physical and Chemical Properties:

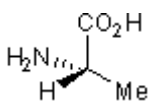
Batch Molecular Formula: C₃H₇NO₂

Batch Molecular Weight: 89.09

Physical Appearance: White solid

Minimum Purity: >99%

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:

Schieden and Betz (1995) Pharmacology of the inhibitory glycine receptor: agonist and antagonist actions of amino acids and piperidine carboxylic acid compounds. *Mol.Pharmacol.* **48** 919. PMID: 7476923.

Saitoh et al (1994) A novel antagonist, phenylbenzene ω-phosphono-α-amino acid, for strychnine-sensitive glycine receptors in the rat spinal cord. *Br.J.Pharmacol.* **113** 165. PMID: 7812607.

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

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel: +1 612 379 2956