

Certificate of Analysis

www.tocris.com

Product Name: Glycine
CAS Number: 56-40-6
IUPAC Name: Aminoethanoic acid

Catalog No.: 0219 **Batch No.:** 15
EC Number: 200-272-2

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂H₅NO₂
Batch Molecular Weight: 75.07
Physical Appearance: White solid
Solubility: water to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

¹H NMR: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	32	6.71	18.66
Found	31.81	6.76	18.49

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

Product Name: Glycine

Catalog No.: 0219

Batch No.: 15

CAS Number: 56-40-6

EC Number: 200-272-2

IUPAC Name: Aminoethanoic acid

Description:

One of the major inhibitory neurotransmitters in the mammalian CNS, predominantly active in the spinal cord and brain stem. Also acts as a modulator of excitatory amino acid transmission mediated by NMDA receptors.

Physical and Chemical Properties:

Batch Molecular Formula: C₂H₅NO₂

Batch Molecular Weight: 75.07

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:

Kuhse *et al* (1995) The inhibitory glycine receptor: architecture, synaptic localization and molecular pathology of a postsynaptic ion-channel complex. *Curr.Opin.Neurobiol.* **5** 318. PMID: 7850154.

Betz (1991) Glycine receptors: heterogeneous and widespread in the mammalian brain. *Trends Neurosci.* **14** 458. PMID: 1722365.

Ascher and Johnson (1989) The NMDA receptor, its channel and its modulation by glycine. *The NMDA Receptor* (2nd edition). Eds. G.L.Collingr 109.

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