# TOCRIS a biotechne brand

Product Name: L-Serine

CAS Number:

**IUPAC Name:** 

## **Certificate of Analysis**

#### www.tocris.com

Catalog No.: 0227 EC Number: 200-274-3

Batch No.: 12

### 1. PHYSICAL AND CHEMICAL PROPERTIES

β-Hydroxyalanine

56-45-1

Batch Molecular Formula:
Batch Molecular Weight:
Physical Appearance:
Solubility:
Storage:
Batch Molecular Structure:

C<sub>3</sub>H<sub>7</sub>NO<sub>3</sub> 105.09 White solid water to 100 mM Store at RT

çо₂н H<sub>2</sub>N / \_ OH

#### 2. ANALYTICAL DATA

TLC:		
Melting Point:		
HPLC:		
<sup>1</sup> H NMR:		
Microanalysis:		

R<sub>f</sub> = 0.4 (Pyridine:Acetic acid:Water:Butanol [3:8:11:33]) At 231°C(dec) Shows 100% purity Consistent with structure Carbon Hydrogen Nitrogen

Theoretical	34.29	6.71	13.33
Found	34.27	6.96	13.19

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

bio-techne.com	North America	China	Europe Middle East Africa	Rest of World
info@bio-techne.com techsupport@bio-techne.com	Tel: (800) 343 7475	info.cn@bio-techne.com Tel: +86 (21) 52380373	Tel: +44 (0)1235 529449	www.tocris.com/distributors Tel:+1 612 379 2956

# TOCRIS a biotechne brand

### **Product Information**

#### www.tocris.com

#### Product Name: L-Serine

(Cat. No. 0226) also available.

CAS Number: 56-45-1 **IUPAC Name:** β-Hydroxyalanine

**Physical and Chemical Properties:** 

Batch Molecular Formula: C<sub>3</sub>H<sub>7</sub>NO<sub>3</sub>

Batch Molecular Weight: 105.09

Physical Appearance: White solid

Endogenous agonist at the inhibitory glycine receptor. D-Serine

#### 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:**

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

Schmeiden 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.

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

bio-techne.com	North America	China	Europe Middle East Africa	Rest of World
info@bio-techne.com techsupport@bio-techne.com	Tel: (800) 343 7475	info.cn@bio-techne.com Tel: +86 (21) 52380373	Tel: +44 (0)1235 529449	www.tocris.com/distributors Tel:+1 612 379 2956

Minimum Purity: >99%

**Batch Molecular Structure:** 

**Description:** 

Print Date: Jan 8th 2016

# Catalog No.: 0227

EC Number: 200-274-3

Batch No.: 12