

## Certificate of Analysis

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**Product Name:** L-Cysteinesulfinic acid

**Catalog No.:** 0216

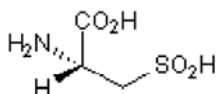
**Batch No.:** 20

CAS Number: 1115-65-7

EC Number: 214-228-5

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>3</sub>H<sub>7</sub>NO<sub>4</sub>S.H<sub>2</sub>O  
**Batch Molecular Weight:** 171.17  
**Physical Appearance:** White solid  
**Solubility:** water to 100 mM  
**Storage:** Desiccate at -20°C  
**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**<sup>1</sup>H NMR:** Consistent with structure  
**Optical Rotation:** [α]<sub>D</sub> = +20.4 (Concentration = 1, Solvent = 1N HCl)  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	21.05	5.3	8.18
Found	21.07	5.49	8.16

**Titration with NaOH:** 99%

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

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**Catalog No.:** 0216

**Batch No.:** 20

CAS Number: 1115-65-7

EC Number: 214-228-5

**Description:**

Agonist at mGlu<sub>1a</sub> and mGlu<sub>5a</sub> subtypes expressed in clonal RGT cell lines. Also agonist at NMDA and PLD-coupled mGlu receptors.

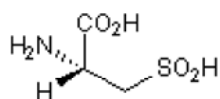
**Physical and Chemical Properties:**

Batch Molecular Formula: C<sub>3</sub>H<sub>7</sub>NO<sub>4</sub>S.H<sub>2</sub>O

Batch Molecular Weight: 171.17

Physical Appearance: White solid

**Batch Molecular Structure:**



**Storage:** Desiccate at -20°C

**Solubility & Usage Info:**

water to 100 mM

CAUTION - Solutions of this product should be made up and used on the same day. Solutions that are frozen should be aliquoted and used within 1 week.

**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:**

**Kingston *et al*** (1998) Sulphur-containing amino acids are agonists for group 1 metabotropic receptors expressed in clonal RGT cell lines. *Neuropharmacology* **37** 277. PMID: 9681926.

**Gorman and Griffiths** (1994) Sulphur-containing excitatory amino acid-stimulated inositol phosphate formation in primary cultures of cerebellar granule cells is mediated predominately by *N*-methyl-D-aspartate receptors. *Neuroscience* **59** 299. PMID: 8008194.

**Mewett *et al*** (1983) Pharmacology of the excitatory actions of sulphonic and sulphinic amino acids. *CNS Receptors: From Molecular Pharmacology to Beha* 163-174.

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