

Certificate of Analysis

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Product Name: S-Sulfo-L-cysteine sodium salt

Catalog No.: 0162

Batch No.: 5

CAS Number: 7381-67-1

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₃H₆NO₅S₂Na.H₂O

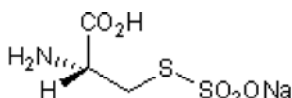
Batch Molecular Weight: 241.21

Physical Appearance: Off White solid

Solubility: water to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.5 (PAW:n-BuOH (3:2))

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Optical Rotation: [α]_D = -98 (Concentration = 1, Solvent = Water)

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	14.94	3.34	5.81
Found	14.94	3.3	5.85

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

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Product Name: S-Sulfo-L-cysteine sodium salt

Catalog No.: 0162

5

CAS Number: 7381-67-1

Description:

S-Sulfo-L-cysteine sodium salt is an EAA receptor agonist. Agonist at mGlu_{1α} and mGlu_{5α} subtypes expressed in clonal RGT cell lines.

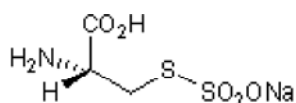
Physical and Chemical Properties:

Batch Molecular Formula: C₃H₆NO₅S₂Na.H₂O

Batch Molecular Weight: 241.21

Physical Appearance: Off White solid

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

water to 100 mM

CAUTION - Solutions of this product should be made up and used on the day of preparation. 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.

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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