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# **DATASHEET**

L-Cysteinesulfinic acid monohydrate

#### **Product overview**

Name L-Cysteinesulfinic acid monohydrate

Cat No HB0380
Alternative names L-CSA
Biological action Agonist
Purity >98%

**Description**  $mGlu_{1\alpha} / mGlu_{5a}$  agonist

## **Biological Data**

Biological description mGlu<sub>1a</sub> and mGlu<sub>5a</sub> receptor agonist in RGT cell lines. Also acts as a NMDA receptor agonist and PLD-

coupled mGlu receptor agonist.

### **Solubility & Handling**

Solubility overview Soluble in water (100mM)
Storage instructions -20 °C (desiccate)

Storage of solutions Prepare and use solutions on the same day if possible. Store solutions at -20 °C for up to one month if

storage is required. Equilibrate to RT and ensure the solution is precipitate free before use.

**Shipping Conditions** Stable for ambient temperature shipping. Follow storage instructions on receipt.

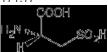
Important This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not

for human or veterinary use.

### **Chemical Data**

Molecular Weight 171.17

Chemical structure



Molecular Formula C<sub>3</sub>H<sub>7</sub>NO<sub>4</sub>S.H<sub>2</sub>O CAS Number 1115-65-7 PubChem identifier 1549098

**SMILES** [H][C@](N)(CS(O)=O)C(O)=O

InChiKey ADVPTQAUNPRNPO-REOHCLBHSA-N

#### References

Sulphur-containing amino acids are agonists for group 1 metabotropic receptors expressed in clonal RGT cell lines.

Kingston AE *et al* (1998) Neuropharmacology 37(3) **PubMedID** 9681926

Sulphur-containing excitatory amino acid-stimulated inositol phosphate formation in primary cultures of cerebellar granule cells is mediated predominantly by N-methyl-D-aspartate receptors.

Gorman A *et al* (1994) Neuroscience 59(2) **PubMedID**8008194

L-cysteine sulfinic acid as an endogenous agonist of a novel metabotropic receptor coupled to stimulation of phospholipase D activity.

Boss V *et al* (1994) Mol Pharmacol 45(6) **PubMedID** 8022410

Metabotropic glutamate receptors activate phospholipase D in astrocytes through a protein kinase C-dependent and Rhoindependent pathway.

Servitja JM *et al* (2003) Neuropharmacology 44(2) **PubMedID** 12623215