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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

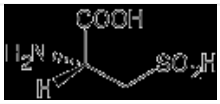
Biological Data

Biological description	$mGlu_{1\alpha}$ and $mGlu_{5a}$ receptor agonist in RGT cell lines. Also acts as a NMDA receptor agonist and PLD-coupled mGlu receptor agonist.

Solubility & Handling

Storage instructions	-20°C (desiccate)
Solubility overview	Soluble in water (100mM)
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	$C_3H_7NO_4S.H_2O$
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)
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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 Rho-independent pathway.

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