Data Sheet (Cat.No.T5083)

TargetMol

L-Cysteic acid monohydrate

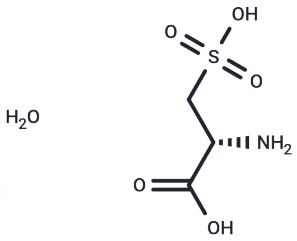
Chemical Properties

CAS No. : 23537-25-9

Formula: C3H9NO6S

Molecular Weight: 187.17

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.



Biological Description

Description	L-Cysteic acid monohydrate (3-Sulfo-L-alanine Monohydrate) is an oxidation product of L-cysteine that may be used as a competitive inhibitor of the bacterial aspartate: alanine antiporter (AspT) exchange of aspartate and in other aspartate biological systems. L-Cysteic acid monohydrate is used in monomeric surfactant development. L-Cysteic acid monohydrate may be used in studies of excitatory amino acids in the brain, such as those that bind to cysteine sulfinic acid receptors. It is a useful agonist at several rat metabotropic glutamate receptors (mGluRs).
Targets(IC50)	Endogenous Metabolite,GluR

Solubility Information

Solubility	DMSO: 45 mg/mL (240.42 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.3427 mL	26.7137 mL	53.4274 mL
5 mM	1.0685 mL	5.3427 mL	10.6855 mL
10 mM	0.5343 mL	2.6714 mL	5.3427 mL
50 mM	0.1069 mL	0.5343 mL	1.0685 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Parsons RB, et al. In vitro effect of the cysteine metabolites homocysteic acid, homocysteine and cysteic acid upon human neuronal cell lines. Neurotoxicology. 1998 Aug-Oct;19(4-5):599-603.

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