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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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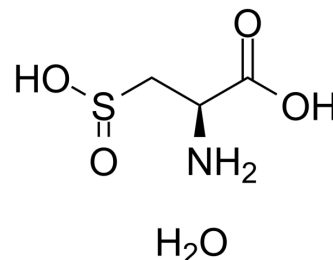
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L-Cysteinesulfinic acid monohydrate

Cat. No.:	HY-W017230
CAS No.:	207121-48-0
Molecular Formula:	C ₃ H ₉ NO ₃ S
Molecular Weight:	171
Target:	mGluR; Endogenous Metabolite
Pathway:	GPCR/G Protein; Neuronal Signaling; Metabolic Enzyme/Protease
Storage:	Powder -20°C 3 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

H₂O : 41.67 mg/mL (243.68 mM; Need ultrasonic)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		5.8480 mL	29.2398 mL	58.4795 mL
	5 mM		1.1696 mL	5.8480 mL	11.6959 mL
	10 mM		0.5848 mL	2.9240 mL	5.8480 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

L-Cysteinesulfinic acid monohydrate is a potent agonist at several rat metabotropic glutamate receptors (mGluRs) with pEC₅₀s of 3.92, 4.6, 3.9, 2.7, 4.0, and 3.94 for mGluR1, mGluR5, mGluR2, mGluR4, mGluR6, and mGluR8, respectively^[1].

IC₅₀ & Target

mGluR1 3.92 (pEC50)	mGluR2 3.9 (pEC50)	mGluR4 2.7 (pEC50)	mGluR5 4.6 (pEC50)
mGluR6 4.0 (pEC50)	mGluR8 3.94 (pEC50)	Human Endogenous Metabolite	

In Vitro

L-Cysteinesulfinic acid is an endogenous agonist of a metabotropic receptor coupled to stimulation of phospholipase D (PLD) activity. L-CSA is an endogenous agonist of the PLD-coupled metabotropic excitatory amino acids (EAA) receptor. L-CSA selectively activates the PLD-coupled receptor. 1 mM L-CSA induces a significant increase in PLD activity in hippocampal slices, whereas 1 mM concentrations of L-glutamate, L-aspartate, and L-HCA are without effect. L-CSA elicits a dose-dependent increase in PLD activity in rat hippocampal slices in the presence of iGluR antagonists, with an approximate EC₅₀ of 500 uM. The PLD response induced by 1 mM L-CSA is not significantly decreased in the presence of 1 uM tetrodotoxin,

suggesting that this response is not dependent upon L-CSA-induced increases in cell firing^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Shi Q, et al. L-homocysteine sulfinic acid and other acidic homocysteine derivatives are potent and selective metabotropic glutamate receptor agonists. J Pharmacol Exp Ther. 2003 Apr;305(1):131-42.
- [2]. Boss V, et al. L-cysteine sulfinic acid as an endogenous agonist of a novel metabotropic receptor coupled to stimulation of phospholipase D activity.
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Caution: Product has not been fully validated for medical applications. For research use only.

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