

L-Cysteic acid

Chemical Properties

CAS No. :	498-40-8
Formula:	C3H7NO5S
Molecular Weight:	169.156
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>

Biological Description

Description	L-Cysteic acid is an endogenous metabolite and the oxidation product of L-cysteine, where the thiol group is completely oxidised to sulfonic acid/sulfonic acid groups, and can serve as a substrate for GADCase, with a Km of 5.4 mM.
Targets(IC50)	Endogenous Metabolite

Solubility Information

Solubility	DMSO: 20.00 mg/mL (118.23 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.9116 mL	29.5578 mL	59.1156 mL
5 mM	1.1823 mL	5.9116 mL	11.8231 mL
10 mM	0.5912 mL	2.9558 mL	5.9116 mL
50 mM	0.1182 mL	0.5912 mL	1.1823 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

He Z, et al. Biodegradation of Feather Waste Keratin by the Keratin-Degrading Strain *Bacillus subtilis* 8. *J Microbiol Biotechnol.* 2018 Feb 28;28(2):314-322.

Takeda K, Kemmoku K, Satoh Y, Ogasawara Y, Shin-Ya K, Dairi T. N-Phenylacetylation and Nonribosomal Peptide Synthetases with Substrate Promiscuity for Biosynthesis of Heptapeptide Variants, JBIR-78 and JBIR-95. *ACS Chem Biol.* 2017 Jul 21;12(7):1813-1819.

Bao W, Cao C, Li S, Bo L, Zhang M, Zhao X, Liu Y, Sun C. Metabonomic analysis of quercetin against the toxicity of acrylamide in rat urine. *Food Funct.* 2017 Mar 22;8(3):1204-1214.

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