

L-Penicillamine

Chemical Properties

CAS No.:	1113-41-3
Formula:	C ₅ H ₁₁ NO ₂ S
Molecular Weight:	149.2
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	L-Penicillamine is a medication primarily. It is used for the treatment of Wilson's disease. It is also used for people with kidney stones who have high urine cystine levels, rheumatoid arthritis, copper poisoning, and lead poisoning.
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Solubility Information

Solubility	DMSO: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	6.702 mL	33.512 mL	67.024 mL
5 mM	1.340 mL	6.702 mL	13.405 mL
10 mM	0.670 mL	3.351 mL	6.702 mL
50 mM	0.134 mL	0.670 mL	1.340 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

- Grenács Á, Lihi N, Sóvágó I, Várnagy K. The influence of penicillamine/cysteine mutation on the metal complexes of peptides. Dalton Trans. 2017 Oct 10;46(39):13472-13481. doi: 10.1039/c7dt02703f. PubMed PMID: 28951904.
- Singh N, Bhatla SC. Signaling through reactive oxygen and nitrogen species is differentially modulated in sunflower seedling root and cotyledon in response to various nitric oxide donors and scavengers(). Plant Signal Behav. 2017 Sep 2;12(9):e1365214. doi: 10.1080/15592324.2017.1365214. Epub 2017 Sep 1. PubMed PMID: 28862537; PubMed Central PMCID: PMC5640198.
- Wei J, Guo Y, Li J, Yuan M, Long T, Liu Z. Optically Active Ultrafine Au-Ag Alloy Nanoparticles Used for Colorimetric Chiral Recognition and Circular Dichroism Sensing of Enantiomers. Anal Chem. 2017 Sep 19;89(18):9781-9787. doi: 10.1021/acs.analchem.7b01723. Epub 2017 Sep 7. PubMed PMID: 28832124.
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Tel:781-999-4286

E-mail:info@targetmol.com

Address:36 Washington Street,Wellesley Hills,MA 02481