Data Sheet (Cat.No.T20118)

TargetMol

L-Penicillamine

Chemical Properties

CAS No. : 1113-41-3

Formula: C5H11NO2S

Molecular Weight: 149.211

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-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.
Targets(IC50)	Others

Solubility Information

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

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	6.702 mL	33.5098 mL	67.0196 mL
5 mM	1.3404 mL	6.702 mL	13.4039 mL
10 mM	0.6702 mL	3.351 mL	6.702 mL
50 mM	0.134 mL	0.6702 mL	1.3404 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

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.
Sianglam P, Kulchat S, Tuntulani T, Ngeontae W. A circular dichroism sensor for selective detection of Cd(2+) and S(2-) based on the in-situ generation of chiral CdS quantum dots. Spectrochim Acta A Mol Biomol Spectrosc. 2017 Aug 5;183:408-416. doi: 10.1016/j.saa.2017.04.071. Epub 2017 Apr 26. PubMed PMID: 28475982.