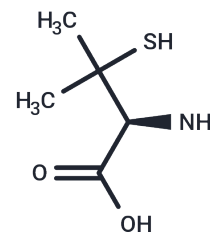


Penicillamine

Chemical Properties

CAS No. :	52-67-5
Formula:	C ₅ H ₁₁ NO ₂ S
Molecular Weight:	149.21
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	Penicillamine (Artamine), possessing antineoplastic properties, induces apoptosis by a p53-mediated mechanism and inhibits angiogenesis by chelating with copper, a cofactor for angiogenesis. Artamine is a beta dimethyl analog of the amino acid cysteine. As a degradation product of penicillin antibiotics, Artamine chelates with heavy metals and increases their urinary excretion.
Targets(IC50)	Antibiotic,Cuproptosis,Drug Metabolite

Solubility Information

Solubility	DMSO: 1 mg/mL (6.7 mM),Sonication is recommended. H ₂ O: 71.43 mg/mL (478.72 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	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

- Brewer GJ. Expert Opin PharmacOther. 2006 Feb;7(3):317-24.
Kong L, Huang H, Luan S, et al. Inhibition of ASIC1a-Mediated ERS Improves the Activation of HSCs and Copper Transport Under Copper Load. Frontiers in Pharmacology. 2021, 12: 1348.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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