

Copper(II) Sulfate

Chemical Properties

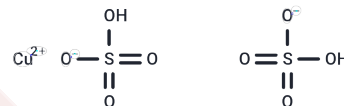
CAS No. : 7758-98-7

Formula: CuH2O8S2

Molecular Weight: 257.69

Storage: Keep away from moisture
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	Copper(II) Sulfate (Cupric sulfate) has a variety of antibacterial activities and has inhibitory activity against Staphylococcus aureus, Streptococcus pneumoniae, Pseudomonas aeruginosa, Plasmodium falciparum, etc.
Targets(IC50)	Antibacterial

Solubility Information

Solubility	H2O: 80 mg/mL (310.45 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	3.8806 mL	19.4032 mL	38.8063 mL
5 mM	0.7761 mL	3.8806 mL	7.7613 mL
10 mM	0.3881 mL	1.9403 mL	3.8806 mL
50 mM	0.0776 mL	0.3881 mL	0.7761 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

Burrows AD, et al. Synthesis, structures, and magnetic behavior of new anionic copper(II) sulfate aggregates and chains. Inorg Chem. 2012 Oct 15;51(20):10983-9.

Du Z, et al. Utilization of copper in copper proteinate, copper lysine, and cupric sulfate using the rat as an experimental model. J Anim Sci. 1996 Jul;74(7):1657-63.

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