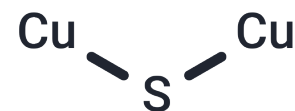


Copper(i)sulfide

Chemical Properties

CAS No. :	22205-45-4
Formula:	Cu ₂ S
Molecular Weight:	159.16
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	Copper(i)sulfide is a high purity biochemical reagent that can be used in research related to life sciences.
Targets(IC50)	Others
In vitro	In vitro, 4±0.5nm chiral Cu ₂ S nanoparticles (46mdeg at 530nm) selectively bound the HBcAg domain (F23-L30) and cleaved it between F24 and P25 under 808nm light, thereby blocking viral capsid assembly. This treatment reduced intracellular HBcAg levels by 95%[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	6.283 mL	31.4149 mL	62.8299 mL
5 mM	1.2566 mL	6.283 mL	12.566 mL
10 mM	0.6283 mL	3.1415 mL	6.283 mL
50 mM	0.1257 mL	0.6283 mL	1.2566 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

Guo X, Sun M, Gao R, Qu A, Chen C, Xu C, Kuang H, Xu L. Ultrasmall Copper (I) Sulfide Nanoparticles Prevent Hepatitis B Virus Infection. *Angew Chem Int Ed Engl.* 2021 Jun 1;60(23):13073-13080.

Guo Y, Wu Q, Li Y, Lu N, Mao K, Bai Y, Zhao J, Wang J, Zeng XC. Copper(i) sulfide: a two-dimensional semiconductor with superior oxidation resistance and high carrier mobility. *Nanoscale Horiz.* 2019 Jan 1;4(1):223-230.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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