Bathocuproine disulfonate disodium

Cat. No.: HY-W034953

CAS No.: 52698-84-7

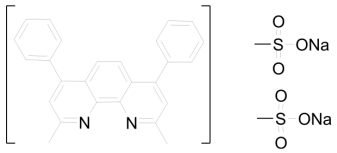
Molecular Formula: $C_{26}H_{18}N_2Na_2O_6S_2$

Molecular Weight: 564.54

Target: Biochemical Assay Reagents

Pathway: Others

Storage: 4°C, protect from light, stored under nitrogen
* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro

H_2O : 50 mg/mL (88.57 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	1.7714 mL	8.8568 mL	17.7135 mL
	5 mM	0.3543 mL	1.7714 mL	3.5427 mL
	10 mM	0.1771 mL	0.8857 mL	1.7714 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Bathocuproine disulfonate disodium (BCS) is an organic compound used as a highly sensitive colorimetric reagent for copper ions in biochemical and analytical applications. It has a bright yellow color and absorbs light at specific wavelengths, so it can be used to detect and quantify trace copper. In biochemical applications, BCS is commonly used to study the role of copper ions in various biological processes. Copper is an essential nutrient for many organisms, but it can also be toxic in high concentrations, so accurate measurement of copper levels is important to understand its impact on living systems. In terms of analysis, BCS is often used in environmental monitoring and water quality testing to detect copper pollution. It can detect copper even at very low concentrations, making it an invaluable tool for identifying potential sources of pollution and assessing the impact of industrial activities on aquatic ecosystems.

In Vitro

Disodium bathocuproine disulfonate is a biochemical reagent that can be used as a biological material or organic compound for life science related research.
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Caution: Product has not been fully validated for medical applications. For research use only.

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