



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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## Copper sulfate anhydrous, 99%

Cat. No.:	HY-Y1878C
CAS No.:	7758-98-7
Molecular Formula:	CuSO <sub>4</sub>
Molecular Weight:	159.61
Target:	Bacterial
Pathway:	Anti-infection
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



### SOLVENT & SOLUBILITY

#### In Vitro

H<sub>2</sub>O : 100 mg/mL (626.53 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent		1 mg	5 mg	10 mg
	Concentration	Mass			
	1 mM		6.2653 mL	31.3264 mL	62.6527 mL
	5 mM		1.2531 mL	6.2653 mL	12.5305 mL
	10 mM		0.6265 mL	3.1326 mL	6.2653 mL

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

### BIOLOGICAL ACTIVITY

#### Description

Anhydrous copper sulfate, 99% (Cupric sulfate anhydrous, 99%) is an orally administerable disinfectant. Anhydrous copper sulfate, 99% can be used as a biomaterial or organic compound related to life sciences research, and it can increase the Cu content in rat organs<sup>[1][2]</sup>.

#### In Vivo

Anhydrous copper sulfate, 99% (0-15 mg per kg of feed, daily, for 28 days) is beneficial for the growth performance of rats<sup>[2]</sup>. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Male Wistar rats <sup>[2]</sup>
Dosage:	0.15 mg (per kilogram of feed); daily; 28 days
Administration:	Oral
Result:	Reduced feed intake, however, supplementing with copper had a significant positive impact on weight gain and feed conversion rates, increasing the copper content in the liver, heart, kidneys, and spleen, while the zinc content in the kidneys decreased.

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## REFERENCES

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[1]. Bergmeyer H U, et al. Biochemical reagents[M]//Methods of Enzymatic Analysis. Academic Press, 1965: 967-1037.

[2]. Hulya Ozkul, et al. Effects of high levels of dietary copper sulfate and copper proteinate on growth performance, retention for copper and zinc of rats. Copper Sulfate. 2011 10(11):1373-1377

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

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