

## Berberine hydrogen sulphate

## Chemical Properties

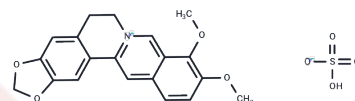
CAS No. : 633-66-9

Formula: C<sub>20</sub>H<sub>19</sub>N<sub>0</sub>S<sub>8</sub>

Molecular Weight: 433.43

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	Berberine hydrogen sulphate (Umbellatine Sulfate) , an alkaloid extracted from several plants, possesses antimicrobial activity against a wide variety of microorganisms including Gram-positive and Gram-negative bacteria, fungi, and protozoa.
Targets(IC50)	Apoptosis,NF-κB,Reactive Oxygen Species,Akt,Caspase,Antibacterial,Antibiotic,Parasite, Autophagy,DNA/RNA Synthesis,JNK,PI3K,ROS,Topoisomerase

## Solubility Information

Solubility	H <sub>2</sub> O: 85.83 mg/mL (198.03 mM),Sonication is recommended. DMSO: 1 mg/mL (2.31 mM),Sonication is recommended. Chloroform, Dichloromethane, Ethyl Acetate, Acetone, etc.: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3072 mL	11.5359 mL	23.0718 mL
5 mM	0.4614 mL	2.3072 mL	4.6144 mL
10 mM	0.2307 mL	1.1536 mL	2.3072 mL
50 mM	0.0461 mL	0.2307 mL	0.4614 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

Zhou, L., Song, F., Liu, Q., Yang, M., Zhao, J., & Tan, R. et al. (2015). Berberine Sulfate Attenuates Osteoclast Differentiation through RANKL Induced NF-κB and NFAT Pathways. International Journal Of Molecular Sciences, 16 (11), 27087-27096. doi: 10.3390/ijms161125998

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