

Berberine chloride

Chemical Properties

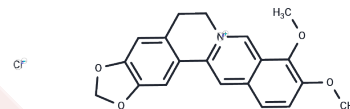
CAS No. : 633-65-8

Formula: C₂₀H₁₈ClNO₄

Molecular Weight: 371.80

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 chloride (Natural Yellow 18) is an alkaloid from Hydrastis canadensis L., Berberidaceae and also found in many other plants. It is relatively toxic to parenterally but has been used orally for various fungal and parasitic infections and an anti-diarrheal.
Targets(IC50)	Reactive Oxygen Species,Endogenous Metabolite,Antibacterial,Antibiotic,Parasite, Autophagy,ROS,Topoisomerase

Solubility Information

Solubility	DMSO: 21.00 mg/mL (56.48 mM),Sonication is recommended. Ethanol: < 1 mg/mL (insoluble or slightly soluble), H ₂ O: < 1 mg/mL (insoluble or slightly soluble), (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 1.00 mg/mL (2.69 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6896 mL	13.4481 mL	26.8962 mL
5 mM	0.5379 mL	2.6896 mL	5.3792 mL
10 mM	0.269 mL	1.3448 mL	2.6896 mL
50 mM	0.0538 mL	0.269 mL	0.5379 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

Zhang Y, et al. J Pharmacol Exp Ther. 2014 Jun; 349(3):417-26.

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