

## Berberrubine chloride

## Chemical Properties

CAS No. : 15401-69-1

Formula: C<sub>19</sub>H<sub>16</sub>ClNO<sub>4</sub>

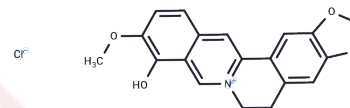
Molecular Weight: 357.79

Storage:

Keep away from moisture, Store at low temperature,  
Store under nitrogen

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   | 1. Berberrubine chloride (9-Berberoline Chloride) has antitumor activity. 2. Berberrubine has antidiabetic activity. 3. Berberrubine dose-dependently inhibits IL-8 and MCP-1 protein levels in the media and mRNA expression of the cells stimulated with IL-1beta or TNF-alpha. |
| Targets(IC50) | HIV Protease, Drug Metabolite, IL Receptor, Interleukin   |

## Solubility Information

|            |   |
|------------|---|
| Solubility | H <sub>2</sub> O: 2 mg/mL (5.59 mM), Sonication is recommended.<br>Chloroform, Dichloromethane, Ethyl Acetate, Acetone, etc.: Soluble,<br>DMSO: 11.17 mg/mL (31.22 mM), Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|---|

## Preparing Stock Solutions

|       | 1mg       | 5mg        | 10mg       |
|-------|-----------|------------|------------|
| 1 mM  | 2.7949 mL | 13.9747 mL | 27.9494 mL |
| 5 mM  | 0.559 mL  | 2.7949 mL  | 5.5899 mL  |
| 10 mM | 0.2795 mL | 1.3975 mL  | 2.7949 mL  |
| 50 mM | 0.0559 mL | 0.2795 mL  | 0.559 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

Cui H S , Hayasaka S , Zhang X Y , et al. Effect of berberrubine on interleukin-8 and monocyte chemotactic protein-1 expression in human retinal pigment epithelial cell line[J]. Life Sciences, 2006, 79(10):0-956.

He X, Cui J, Ma H, et al. Berberubine is a novel and selective IMPDH2 inhibitor that impairs the growth of colorectal cancer. Biochemical Pharmacology. 2023: 115868.

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