

## Dihydroberberine

## Chemical Properties

CAS No. : 483-15-8

Formula: C<sub>20</sub>H<sub>19</sub>NO<sub>4</sub>

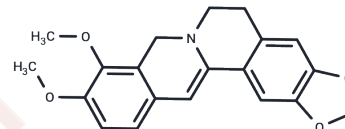
Molecular Weight: 337.37

Keep away from direct sunlight, Keep away from moisture

Storage:

Powder: -20°C for 3 years

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Dihydroberberine has anti-atherosclerotic, anti-inflammatory, hypolipidemic and antitumor activities. It inhibits human ether-a-go-go-related gene (hERG) channels and remarkably reduces Hsp90 expression and its interaction with hERG.
Targets(IC50)	HSP, Potassium Channel

## Solubility Information

Solubility	DMSO: 3.38 mg/mL (10.02 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 1 mg/mL (2.96 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

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	2.9641 mL	14.8205 mL	29.641 mL
5 mM	0.5928 mL	2.9641 mL	5.9282 mL
10 mM	0.2964 mL	1.4821 mL	2.9641 mL
50 mM	0.0593 mL	0.2964 mL	0.5928 mL

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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

Yu D, et al. Inhibitory effects and mechanism of dihydroberberine on hERG channels expressed in HEK293 cells. PLoS One. 2017 Aug 1;12(8):e0181823.

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