

Berbamine

Chemical Properties

CAS No. : 478-61-5

Formula: C₃₇H₄₀N₂O₆

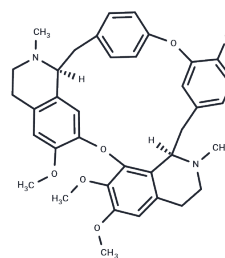
Molecular Weight: 608.72

Storage:

Keep away from direct sunlight, Keep away from moisture

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	Berbamine is a natural product extracted from Phellodendron amurense. It acts as a calcium channel blocker and possesses anti-tumor, immunomodulatory, and cardiovascular effects.
Targets(IC50)	CaMK, NF-κB, Autophagy

Solubility Information

Solubility	Chloroform, Dichloromethane, Ethyl Acetate, Acetone, etc.: Soluble, DMSO: 91 mg/mL (149.49 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: 3.3 mg/mL (5.42 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	1.6428 mL	8.214 mL	16.4279 mL
5 mM	0.3286 mL	1.6428 mL	3.2856 mL
10 mM	0.1643 mL	0.8214 mL	1.6428 mL
50 mM	0.0329 mL	0.1643 mL	0.3286 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

Jin X , Wu Y . Berbamine Enhances the Antineoplastic Activity of Gemcitabine in Pancreatic Cancer Cells by Activating Transforming Growth Factor- β /Smad Signaling[J]. The Anatomical Record Advances in Integrative Anatomy and Evolutionary Biology, 2014, 297(5).

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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