

Bufotalin

Chemical Properties

CAS No. : 471-95-4

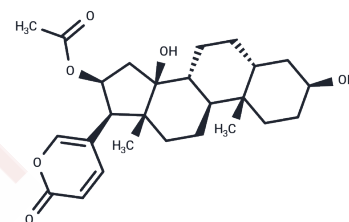
Formula: C₂₆H₃₆O₆

Molecular Weight: 444.56

Keep away from direct sunlight

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	1. Bufotalin (Bufotaline)e is a kind of poisonous secretions of toads.
Targets(IC50)	Apoptosis,Reactive Oxygen Species,ROS

Solubility Information

Solubility	DMSO: 250 mg/mL (562.35 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: < 10 mg/mL (22.49 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 10 mg/mL (22.49 mM),Solution. <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	2.2494 mL	11.2471 mL	22.4942 mL
5 mM	0.4499 mL	2.2494 mL	4.4988 mL
10 mM	0.2249 mL	1.1247 mL	2.2494 mL
50 mM	0.045 mL	0.2249 mL	0.4499 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

Su C L , Lin T Y , Lin C N , et al. Involvement of Caspases and Apoptosis-Inducing Factor in Bufotalin-Induced Apoptosis of Hep 3B Cells[J]. Journal of Agricultural and Food Chemistry, 2009, 57(1):55-61.

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