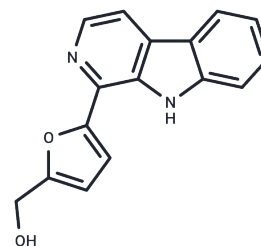


Perlolyrine

Chemical Properties

CAS No. :	29700-20-7
Formula:	C ₁₆ H ₁₂ N ₂ O ₂
Molecular Weight:	264.28
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	Perlolyrine (Tribulusterine) is a naturally occurring alkaloid with molecular docking capacity (-5.73 to -6.59 kJ/mol) with MAPK1, MAPK14, and SRC, with potential anticancer and anti-inflammatory effects.
Targets(IC50)	MAPK,Src
In vitro	Perlolyrine inhibits α -MSH-induced melanogenesis in B16F10 mouse melanoma cells in a dose-dependent manner (5-25 μ M, 48h). At 25 μ M, Perlolyrine reduces melanin content by over 50% without affecting cell viability. Perlolyrine also suppresses the expression of melanogenesis-related genes such as MITF, tyrosinase, and TRP-1[1].

Solubility Information

Solubility	DMSO: 150 mg/mL (567.58 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: 6 mg/mL (22.7 mM),Solution. 10% DMSO+90% Saline: < 6 mg/mL (22.7 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. <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	3.7839 mL	18.9193 mL	37.8387 mL
5 mM	0.7568 mL	3.7839 mL	7.5677 mL
10 mM	0.3784 mL	1.8919 mL	3.7839 mL
50 mM	0.0757 mL	0.3784 mL	0.7568 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

Ahn, J., Chae, H.-S., Chin, Y.-W., & Kim, J. (2017). Alkaloids from aerial parts of *Houttuynia cordata* and their anti-inflammatory activity. *Bioorganic & Medicinal Chemistry Letters*, 27(12), 2807-2811.

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