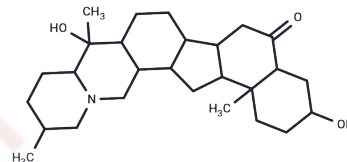


Peiminine

Chemical Properties

CAS No. :	18059-10-4
Formula:	C ₂₇ H ₄₃ N ₃ O ₃
Molecular Weight:	429.64
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. Peiminine (Raddeanine) is an effective inhibitor for lung inflammation and pulmonary fibrosis in a rat model of bleomycin-induced lung injury.
Targets(IC50)	Apoptosis,ERK,Bcl-2 Family,NF-κB,Caspase,Autophagy,p38 MAPK,PARP

Solubility Information

Solubility	DMSO: 45 mg/mL (104.74 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: 2 mg/mL (4.66 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	2.3275 mL	11.6377 mL	23.2753 mL
5 mM	0.4655 mL	2.3275 mL	4.6551 mL
10 mM	0.2328 mL	1.1638 mL	2.3275 mL
50 mM	0.0466 mL	0.2328 mL	0.4655 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

Antiallergic effects of peiminine through the regulation of inflammatory mediators in HMC-1 cells[J]. Immunopharmacology and Immunotoxicology, 2015, 37(4):1-8.

Shim K S, Gu D R, Hwang Y H, et al. Water Extract of Fritillariae thunbergii Bulbus Inhibits RANKL-Mediated Osteoclastogenesis and Ovariectomy-Induced Trabecular Bone Loss. Molecules. 2022, 27(1): 169.

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