

Scabertopin

Chemical Properties

CAS No. : 185213-52-9

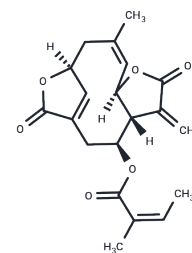
Formula: C₂₀H₂₂O₆

Molecular Weight: 358.39

Storage: Keep away from direct sunlight, Keep away from moisture, Store at low temperature, The compound is unstable in solution. Please use soon

Powder: -20°C for 3 years

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Scabertopin is a sesquiterpene lactone isolated from <i>Gentiana scabra</i> with anticancer and bacteriostatic activities.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 150 mg/mL (418.54 mM), Sonication is recommended. (The compound is unstable in solution, please use soon.) (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: < 10 mg/mL (27.9 mM), Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+90% Corn oil: 10 mg/mL (27.9 mM), Solution. 10% DMSO+90% (20% SBE-β-CD in Saline): < 10 mg/mL (27.9 mM), Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: < 10 mg/mL (27.9 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	2.7903 mL	13.9513 mL	27.9026 mL
5 mM	0.5581 mL	2.7903 mL	5.5805 mL
10 mM	0.279 mL	1.3951 mL	2.7903 mL
50 mM	0.0558 mL	0.279 mL	0.5581 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

Xu G, et al. Antitumor activities of the four sesquiterpene lactones from *Elephantopus scaber* L. *Exp Oncol*. 2006 Jun;28(2):106-9.

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