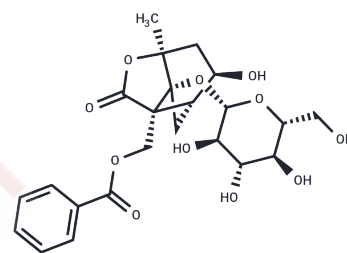


Albiflorin

Chemical Properties

CAS No. :	39011-90-0
Formula:	C ₂₃ H ₂₈ O ₁₁
Molecular Weight:	480.46
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. Albiflorin (Alibiflorin) has anticonvulsant effect for pain relief. 2. Albiflorin and paeoniflorin has neuroprotective action against Glu toxicity. 3. Albiflorin and paeoniflorin significantly ameliorated Glu-induced reduction of cell viability, nuclear and mitochondrial apoptotic alteration, reactive oxygen species accumulation and B-cell lymphoma 2 (Bcl-2)/Bax ratio. 4. Albiflorin can serve as a new chemical marker for the quality control of Paeoniae Radix and the Chinese Pharmacopoeia can be updated, via has similar anti-inflammatory effects to paeoniflorin.
Targets(IC50)	Reactive Oxygen Species, ROS

Solubility Information

Solubility	DMSO: 245 mg/mL (509.93 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 (6.87 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	2.0813 mL	10.4067 mL	20.8134 mL
5 mM	0.4163 mL	2.0813 mL	4.1627 mL
10 mM	0.2081 mL	1.0407 mL	2.0813 mL
50 mM	0.0416 mL	0.2081 mL	0.4163 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

Suh K S , Choi E M , Lee Y S , et al. Protective effect of albiflorin against oxidative-stress-mediated toxicity in osteoblast-like MC3T3-E1 cells[J]. Fitoterapia, 2013, 89(1):33-41.

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