

(-)-Marmesinin

Chemical Properties

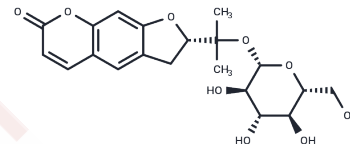
CAS No. : 495-30-7

Formula: C₂₀H₂₄O₉

Molecular Weight: 408.4

Storage: Keep away from moisture, Store at low temperature
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	(-)-Marmesinin (Ammijin) is a linear furanocoumarin isolated from <i>Aegle marmelos</i> , with antioxidant and neuroprotective activities, which can be used in research on myocardial injury.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 40 mg/mL (97.94 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: 1 mg/mL (2.45 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	2.4486 mL	12.2429 mL	24.4858 mL
5 mM	0.4897 mL	2.4486 mL	4.8972 mL
10 mM	0.2449 mL	1.2243 mL	2.4486 mL
50 mM	0.049 mL	0.2449 mL	0.4897 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

ABU-MUSTAFA EFFAT A, et al. Natural Coumarins. I. Marmesin and Marmesinin, Further Products from the Fruits of Ammi majus L. The Journal of Organic Chemistry 26.1 (1961): 161-166.

Kang SY, et al. Neuroprotective coumarins from the root of Angelica gigas: structure-activity relationships. Arch Pharm Res. 2007 Nov;30(11):1368-73.

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