

Podocarpic acid

Chemical Properties

CAS No. : 5947-49-9

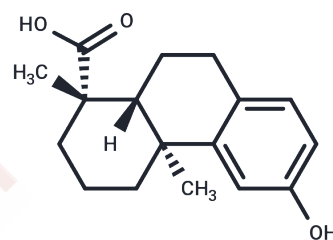
Formula: C17H22O3

Molecular Weight: 274.35

Store at low temperature

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	Podocarpic acid is a natural product and a novel TRPA1 activator.
Targets(IC50)	TRP/TRPV Channel
In vitro	Podocarpic acid activates SKN-1 in <i>C. elegans</i> , similar to known Nrf2 activators such as α -lipoic acid (LA)[1].
In vivo	Podocarpic acid and LA alleviate the Podocarpic acidthogenic phenotypes of glod-4 animals by reverting the high endogenous MGO and GO to almost wild-type-like levels [1].

Solubility Information

Solubility	DMSO: 100 mg/mL (364.5 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: 4 mg/mL (14.58 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	3.645 mL	18.2249 mL	36.4498 mL
5 mM	0.729 mL	3.645 mL	7.290 mL
10 mM	0.3645 mL	1.8225 mL	3.645 mL
50 mM	0.0729 mL	0.3645 mL	0.729 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

Baraka HN. Microbial transformation of podocarpic acid and evaluation of transformation products for antioxidant activity. *Planta Med.* 2010 May;76(8):815-7.

Singh S, et al. Discovery and development of dimeric podocarpic acid leads as potent agonists of liver X receptor with HDL cholesterol raising activity in mice and hamsters. *Bioorg Med Chem Lett.* 2005 Jun 2;15(11):2824-8.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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