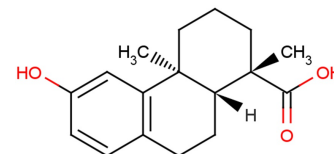


Podocarpic acid

Chemical Properties

CAS No.:	5947-49-9
Formula:	C ₁₇ H ₂₂ O ₃
Molecular Weight:	274.35
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	Podocarpic acid is a natural product, is a novel TRPA1 activator.
Targets(IC ₅₀)	Others: None
In vitro	Podocarpic acid anhydride acts as a agonist of LXRalpha and beta receptors, and shows over 8-10-fold better activator of LXR receptors compared to one of the natural ligands, 22-(R)-hydroxy cholesterol, in HEK-293 cells[2].
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 (364.50 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.645 mL	18.225 mL	36.45 mL
5 mM	0.729 mL	3.645 mL	7.29 mL
10 mM	0.364 mL	1.822 mL	3.645 mL
50 mM	0.073 mL	0.364 mL	0.729 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Baraka HN. Microbial transformation of podocarpic acid and evaluation of transformation products for antioxidant activity. Planta Med. 2010 May;76(8):815-7.
2. 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.

Inhibitors · Natural Compounds · Compound Libraries

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