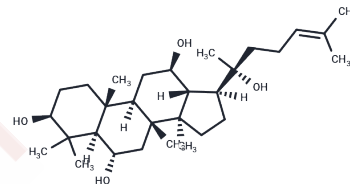


Protopanaxatriol

Chemical Properties

CAS No. :	1453-93-6
Formula:	C ₃₀ H ₅₂ O ₄
Molecular Weight:	476.73
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	Protopanaxatriol (20(R)-APPT), a major ginseng constituent, is a novel PPAR γ antagonist.
Targets(IC50)	PPAR

Solubility Information

Solubility	DMSO: 10 mg/mL (20.98 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0976 mL	10.4881 mL	20.9762 mL
5 mM	0.4195 mL	2.0976 mL	4.1952 mL
10 mM	0.2098 mL	1.0488 mL	2.0976 mL
50 mM	0.042 mL	0.2098 mL	0.4195 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

- Zhang Y, et al. Protopanaxatriol, a novel PPAR γ antagonist from Panax ginseng, alleviates steatosis in mice. *Sci Rep.* 2014 Dec 9;4:7375.
- Kuang Y, Chai Y, Xu L, et al. Glabrone as a specific UGT1A9 probe substrate and its application in discovering the inhibitor glycycomarin. *European Journal of Pharmaceutical Sciences.* 2021: 105786.
- Ahn HY, et al. Panax ginseng extract rich in ginsenoside protopanaxatriol offers combinatorial effects in nitric oxide production via multiple signaling pathways. *Springerplus.* 2013 Mar 9;2(1):96.
- Chen Z, Ni R, Hu Y, et al. A natural protopanaxatriol from Panax notoginseng enhances osteosarcoma sensitivity to ferroptosis via ASCL4 upregulation. *Journal of Functional Foods.* 2024, 122: 106488.
- Kong LT, et al. Different pharmacokinetics of the two structurally similar dammarane sapogenins, protopanaxatriol and protopanaxadiol, in rats. *Fitoterapia.* 2013 Apr;86:48-53.
- Kuang Y, Chai Y, Xu L, et al. Glabrone as a specific UGT1A9 probe substrate and its application in discovering the inhibitor glycycomarin[J]. *European Journal of Pharmaceutical Sciences.* 2021: 105786.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481