(20S)-Protopanaxadiol

Cat. No.: HY-N0797

CAS No.: 30636-90-9

Molecular Formula: $C_{30}H_{52}O_3$

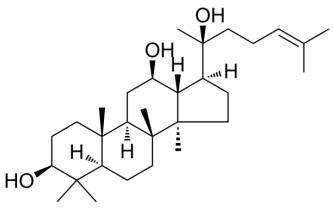
Molecular Weight: 460.73

Target: P-glycoprotein; Reactive Oxygen Species; Apoptosis

Pathway: Membrane Transporter/Ion Channel; Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB; Apoptosis

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	2 years
	-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (108.52 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	2.1705 mL	10.8523 mL	21.7047 mL
	5 mM	0.4341 mL	2.1705 mL	4.3409 mL
	10 mM	0.2170 mL	1.0852 mL	2.1705 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (5.43 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

20S-protopanaxadiol (aPPD) is a metabolite of ginseng saponins, inhibits Akt activity and induces apoptosis in various tumor cells[1].

In Vitro

20S-protopanaxadiol treatment upregulates the flotillin-1 level in the rafts of N2a cells to 142.91±10.71% of the control. 20S-protopanaxadiol can have an opposite effect on raft resident protein flotillin-1, depending on the cell type[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. iu Y, Yang G, Bu X, et al. Cell-type-specific regulation of raft-associated Akt signaling. Cell Death Dis. 2011;2(4):e145. Published 2011 Apr 14.

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