(20R)-Protopanaxadiol

Cat. No.:	HY-N2040
CAS No.:	7755-01-3
Molecular Formula:	C ₃₀ H ₅₂ O ₃
Molecular Weight:	460.73
Target:	Bacterial
Pathway:	Anti-infection
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)

SOLVENT & SOLUBILITY

In Vitro	DMSO : 20 mg/mL (43.41 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Mass 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 so	lubility information to select the app	propriate solvent.				
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 2 mg/mL (4.34 mM); Suspended solution; Need ultrasonic						
	 Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2 mg/mL (4.34 mM); Suspended solution; Need ultrasonic 						
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2 mg/mL (4.34 mM); Clear solution						

BIOLOGICAL ACTIV	ИТҮ
Description	(20R)-Protopanaxadiol is a triterpenoid saponin metabolite of 20(R)-ginsenoside Rg3 in black ginseng. (20R)- Protopanaxadiol exhibits anti-tumor activity and cytotoxicity, and potently inhibits the growth of Helicobacter pylori ^{[1][2][3]} .

REFERENCES

[1]. Liu L, et al. Enzymatic preparation of 20(S, R)-protopanaxadiol by transformation of 20(S, R)-Rg3 from black ginseng. Phytochemistry. 2010 Sep;71(13):1514-20.

[2]. Bae EA, et al. Metabolism of 20(S)- and 20(R)-ginsenoside Rg3 by human intestinal bacteria and its relation to in vitro biological activities. Biol Pharm Bull. 2002

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Jan;25(1):58-63.

[3]. Hasegawa H, et al. Inhibitory effect of some triterpenoid saponins on glucose transport in tumor cells and its application to in vitro cytotoxic and antiviral activities. Planta Med. 1994 Jun;60(3):240-3.

Caution: Product has not been fully validated for medical applications. For research use only.

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