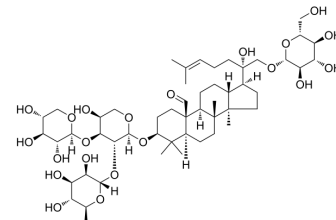


Gyenoside XLIX

Cat. No.:	HY-N1990
CAS No.:	94987-08-3
Molecular Formula:	C ₅₂ H ₈₆ O ₂₁
Molecular Weight:	1047.23
Target:	PPAR
Pathway:	Cell Cycle/DNA Damage; Metabolic Enzyme/Protease; Vitamin D Related/Nuclear Receptor
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 125 mg/mL (119.36 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		1 mM	0.9549 mL	4.7745 mL	9.5490 mL
		5 mM	0.1910 mL	0.9549 mL	1.9098 mL
	10 mM	0.0955 mL	0.4775 mL	0.9549 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 6.25 mg/mL (5.97 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 6.25 mg/mL (5.97 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 6.25 mg/mL (5.97 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	Gyenoside XLIX, a dammarane-type glycoside, is a prominent component of <i>G. pentaphyllum</i> . Gyenoside XLIX is a selective peroxisome proliferator-activated receptor (PPAR)-alpha activator and inhibits cytokine-induced vascular cell adhesion molecule-1 (VCAM-1) overexpression and hyperactivity in human endothelial cells ^[1] .
IC₅₀ & Target	PPAR-α

REFERENCES

[1]. Huang TH , et al. Gypenoside XLIX, a naturally occurring PPAR-alpha activator, inhibits cytokine-induced vascular cell adhesion molecule-1 expression and activity in human endothelial cells. Eur J Pharmacol. 2007 Jun 22;565(1-3):158-65.

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

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