Yamogenin

Cat. No.: HY-N2078

CAS No.: 512-06-1

Molecular Formula: $C_{27}H_{42}O_3$

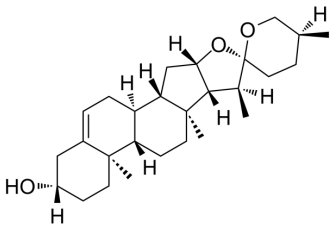
Molecular Weight: 414.62

Target: LXR

Pathway: Metabolic Enzyme/Protease; Vitamin D Related/Nuclear Receptor

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

Ethanol : 1 mg/mL (2.41 mM; Need ultrasonic and warming)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	2.4118 mL	12.0592 mL	24.1185 mL
5 mM	---	---	---
10 mM	---	---	---

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

In Vivo

1. Add each solvent one by one: 10% EtOH >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 1 mg/mL (2.41 mM); Clear solution
2. Add each solvent one by one: 10% EtOH >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 1 mg/mL (2.41 mM); Clear solution
3. Add each solvent one by one: 10% EtOH >> 90% corn oil
   Solubility: ≥ 1 mg/mL (2.41 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Yamogenin (Neodiosgenin) is a diastereomer of diosgenin. Yamogenin (Neodiosgenin) antagonizes the activation of the liver X receptor (LXR) in luciferase ligand assay. Yamogenin (Neodiosgenin) inhibits triacylglyceride (TG) accumulation through the suppression of gene expression of fatty acid synthesis in HepG2 hepatocytes[1].

IC_{50} & Target

IC50: TG accumulation; liver X receptor (LXR)[1]

REFERENCES

[1]. Moriwaki S, et al. Yamogenin in fenugreek inhibits lipid accumulation through the suppression of gene expression in fatty acid synthesis in hepatocytes.Biosci Biotechnol Biochem. 2014;78(7):1231-6.

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