Gymnemagenin

Cat. No.: HY-N2268

CAS No.: 22467-07-8

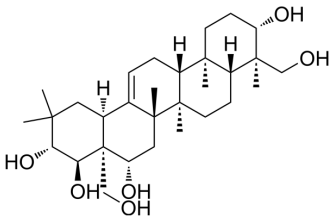
Molecular Formula: $C_{30}H_{50}O_6$

Molecular Weight: 506.71

Target: Antibiotic

Pathway: Anti-infection

Storage: 4°C, sealed storage, away from moisture and light
* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 30 mg/mL (59.21 mM)
* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	1.9735 mL	9.8676 mL	19.7352 mL
	5 mM	0.3947 mL	1.9735 mL	3.9470 mL
	10 mM	0.1974 mL	0.9868 mL	1.9735 mL

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

BIOLOGICAL ACTIVITY

Description

Gymnemagenin is a triterpenoid isolated from G. sylvestre. Gymnemagenin is an agent for diabetes and obesity and also possesses antiviral properties[1][2].

In Vivo

Gymnemagenin has a poor oral bioavailability (~ 14 %) in rats[2].
Gymnemagenin has a short half-life and a high clearance in rats[2].
Gymnemagenin metabolizes rapidly with a short apparent and intrinsic half-life (~ 7 min) and high intrinsic clearance[2].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Parthasarathy R, et al. Gymnemagenin-producing endophytic fungus isolated from a medicinal plant Gymnema sylvestre R.Br. Appl Biochem Biotechnol. 2014 Mar;172(6):3141-52.

[2]. In Vitro Metabolic Stability and Permeability of Gymnemagenin and Its In Vivo Pharmacokinetic Correlation in Rats - A Pilot Study.

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