Methyl gypsogenin-3-O-glucuronide

Cat. No.: HY-N1439

CAS No.: 96553-02-5

Molecular Formula: $C_{37}H_{56}O_{10}$

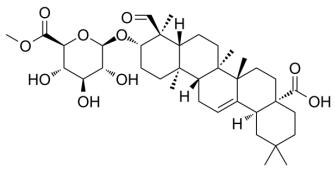
Molecular Weight: 660.83

Target: Others

Pathway: Others

Storage: 4°C, protect from light

* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (151.32 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	1.5132 mL	7.5662 mL	15.1325 mL
	5 mM	0.3026 mL	1.5132 mL	3.0265 mL
	10 mM	0.1513 mL	0.7566 mL	1.5132 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (3.78 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (3.78 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (3.78 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Methyl gypsogenin-3-O-glucuronide (Gypsogenin-3-O-(6-O-methyl)-glucoside) is a ubiquitous saponin precursor in plants of the genus Gypsophila[1].

In Vitro

Treatment of suspended G. paniculata cells with Methyl gypsogenin-3-O-glucuronide (Gypsogenin-3-O-(6-O-methyl)-glucoside) 24 hours before administration of [14C]acetate results in a marked reduction in the incorporation of radioactivity into saponins and their precursors but not into sterols and steryl glucosides[1].

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

REFERENCES

[1]. MaxHenry, et al. Effect of gypsogenin 3,O-glucuronide pretreatment of Gypsophila paniculata and Saponaria officinalis cell suspension cultures on the activities of microsomal 2,3-oxidosqualene cycloartenol and amyrin cyclases. Volume 31, Issue 11, 1992, Pages 3855-3859.

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

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