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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Genipin 1-β-D-gentiobioside

Cat. No.: HY-N2094

CAS No.: 29307-60-6

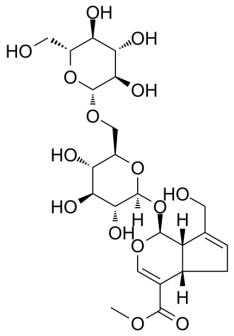
Molecular Formula: $C_{23}H_{34}O_{15}$

Molecular Weight: 550.51

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

Ethanol : 125 mg/mL (227.06 mM; Need ultrasonic)
DMSO : 100 mg/mL (181.65 mM; Need ultrasonic)

Preparing Stock Solutions

Concentration \ Solvent \ Mass	1 mg	5 mg	10 mg
1 mM	1.8165 mL	9.0825 mL	18.1650 mL
5 mM	0.3633 mL	1.8165 mL	3.6330 mL
10 mM	0.1816 mL	0.9082 mL	1.8165 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 (4.54 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (4.54 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (4.54 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Genipin 1-β-D-gentiobioside (Genipin 1-gentiobioside) is one of the most abundant and bioactive iridoid glycosides in Gardenia jasminoides Ellis, which possesses hepatoprotective, anti-inflammatory, antioxidant, and antithrombotic activities.

In Vivo

Genipin 1-β-D-gentiobioside (Genipin gentiobioside) has moderate terminal elimination half-life ($t_{1/2}$=1.65±0.87 h and 2.43±2.30 h for nomal rats (11.4 mg/kg) and cholestatic liver injury (CLI) rats (11.4 mg/kg), respectively)[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

PROTOCOL

Animal Administration [1]

Rats[1]

Twelve male rats are divided randomly into normal and acute cholestatic liver injury (CLI) group, with 6 rats in each. The rats are kept in an air-conditioned environment at a temperature of 22-24°C and a relative humidity of 50±10%, with access to the standard laboratory food and water. After fasted for 12 h, the rats are given Zhi-Zi-Da-Huang decoction (ZZDHD) at a dose of 8 g/kg (crude drug/body weight, equivalent to 35.9 mg/kg geniposide, 11.4 mg/kg Genipin 1-β-D-gentiobioside, 2.50 mg/kg Rhein, 0.23 mg/kg Emodin, 11.2 mg/kg Isonaringin, 83.5 mg/kg Naringin, 12.4 mg/kg Hesperidin and 79.6 mg/kg Neohesperidin) by oral administration. Blood samples (approximately 0.3 mL) are collected from the fosse orbital vein using heparinized 1.5 mL polythene tubes before the dose and at 0.08, 0.17, 0.33, 0.67, 1, 1.5, 2, 3, 4, 6, 8, 10, 12, 24, 36 and 48 h after dosing, and then centrifuged immediately at 13,000 rpm for 5 min. Plasma is transferred into clean tubes and stored at -80°C until analysis[1].

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

REFERENCES

[1]. Zhu H, et al. Simultaneous determination of two iridoid glycosides, two anthraquinones and four flavonoid glycosides of Zhi-Zi-Da-Huang decoction in rat plasma by UFLC-MS/MS: application to a comparative pharmacokinetic study in normal and cholestatic liver injury rats. J Chromatogr B Analyt Technol Biomed Life Sci. 2014 Jun 1;960:116-25.

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