Mulberroside C

Cat. No.: HY-N0620

CAS No.: 102841-43-0

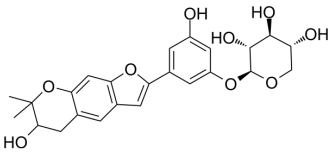
Molecular Formula: $C_{24}H_{26}O_9$

Molecular Weight: 458.46

Target: HCV

Pathway: Anti-infection

Storage: 4°C, protect from light
* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 62.5 mg/mL (136.33 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.1812 mL	10.9061 mL	21.8122 mL
	5 mM	0.4362 mL	2.1812 mL	4.3624 mL
	10 mM	0.2181 mL	1.0906 mL	2.1812 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (5.45 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.08 mg/mL (4.54 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.08 mg/mL (4.54 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Mulberroside C is one of the main bioactive constituents in mulberry (Morus alba L.)[1]. Mulberroside C is a HCV replicon inhibitor. Antiviral activity[2].

REFERENCES

[1]. Mei M, et al. In vitro pharmacokinetic characterization of mulberroside A, the main polyhydroxylated stilbene in mulberry (Morus alba L.), and its bacterial metabolite oxyresveratrol in traditional oral use. J Agric Food Chem. 2012 Mar 7;60(9):2299-308.

[2]. Lee HY, et al. Inhibition of HCV replicon cell growth by 2-arylbenzofuran derivatives isolated from Mori Cortex Radicis. Planta Med. 2007 Nov;73(14):1481-5.

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