2"-O-beta-L-galactopyranosylorientin

Cat. No.: HY-N0406

CAS No.: 861691-37-4

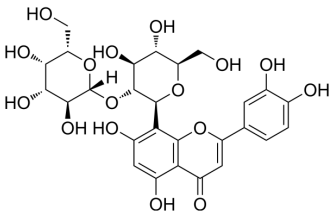
Molecular Formula: $C_{27}H_{30}O_{16}$

Molecular Weight: 610.52

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 (163.79 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	1.6379 mL	8.1897 mL	16.3795 mL
	5 mM	0.3276 mL	1.6379 mL	3.2759 mL
	10 mM	0.1638 mL	0.8190 mL	1.6379 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 (4.09 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (4.09 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

2"-O-beta-L-galactopyranosylorientin is extracted from the flowers of Trollius ledebouri. 2"-O-beta-L-galactopyranosylorientin involves transporter mediated efflux in addition to passive diffusion and is the substrate of multidrug resistance protein 2 (MRP2). Anti-inflammatory effect[1][2][3].

REFERENCES

[1]. Zou JH, et al. Flavone C-glycosides from flowers of Trollius ledebouri. Phytochemistry. 2005 May;66(10):1121-5.

[2]. Liu L, et al. Characterization of the intestinal absorption of seven flavonoids from the flowers of Trollius chinensis using the Caco-2 cell monolayer model. PLoS One. 2015 Mar 19;10(3):e0119263.

[3]. Liu LJ, et al. Anti-inflammatory effect of the compounds from the flowers of Trollius chinensis. Pak J Pharm Sci. 2018;31(5):1951-1957.

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