Taxifolin 7-O-β-D-glucoside

Cat. No.: HY-N7681

CAS No.: 14292-40-1

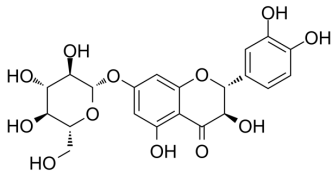
Molecular Formula: $C_{21}H_{22}O_{12}$

Molecular Weight: 466.39

Target: Others

Pathway: Others

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 : 100 mg/mL (214.41 mM; Need ultrasonic)

Preparing Stock Solutions	Concentration \ Solvent \ Mass	1 mg	5 mg	10 mg
	1 mM	2.1441 mL	10.7206 mL	21.4413 mL
	5 mM	0.4288 mL	2.1441 mL	4.2883 mL
	10 mM	0.2144 mL	1.0721 mL	2.1441 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 (5.36 mM); Suspended solution; Need ultrasonic
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (5.36 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: 2.5 mg/mL (5.36 mM); Suspended solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

Taxifolin 7-O-β-D-glucoside (Taxifolin 7-O-glucoside) is one of the main metabolites at the seed germination stage in Scutellaria baicalensis. Taxifolin 7-O-β-D-glucoside, a flavonoid, mainly exists in the episperm and participates in defending against pathogens and UV-damage[1].

REFERENCES

[1]. Jingyuan Xu, et al. Organ-Specific Metabolic Shifts of Flavonoids in Scutellaria baicalensis at Different Growth and Development Stages. Molecules. 2018 Feb 15;23(2):428.

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