(±)-Taxifolin

Cat. No.: HY-N0136A

CAS No.: 24198-97-8

Molecular Formula: $C_{15}H_{12}O_7$

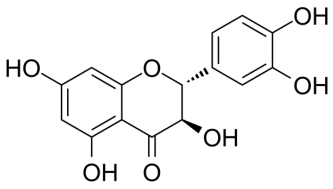
Molecular Weight: 304.25

Target: Autophagy; Tyrosinase

Pathway: Autophagy; Metabolic Enzyme/Protease

Storage:

Powder	-20°C	3 years
In solvent	-80°C	6 months
	-20°C	1 month



Relative stereochemistry

SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (328.68 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	3.2868 mL	16.4339 mL	32.8677 mL
	5 mM	0.6574 mL	3.2868 mL	6.5735 mL
	10 mM	0.3287 mL	1.6434 mL	3.2868 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 (8.22 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (8.22 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (8.22 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

(±)-Taxifolin ((±)-Dihydroquercetin) is the racemate of Taxifolin. Taxifolin exhibits important anti-tyrosinase activity. Taxifolin exhibits significant inhibitory activity against collagenase with an IC_{50} value of 193.3 μM[1]. Taxifolin is an important natural compound with antifibrotic activity. Taxifolin is a free radical scavenger with antioxidant capacity[2].

REFERENCES

[1]. Angelis A, et al. Bio-Guided Isolation of Methanol-Soluble Metabolites of Common Spruce (Picea abies) Bark by-Products and Investigation of Their Dermo-Cosmetic

Properties. Molecules. 2016 Nov 21;21(11):1586.

[2]. Lei Ren, et al. Dissecting Efficacy and Metabolic Characteristic Mechanism of Taxifolin on Renal Fibrosis by Multivariate Approach and Ultra-Performance Liquid Chromatography Coupled With Mass Spectrometry-Based Metabolomics Strategy. Front Pharmacol. 202

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