Apigenin-7-glucuronide

Cat. No.: HY-N1454

CAS No.: 29741-09-1

Molecular Formula: $C_{21}H_{18}O_{11}$

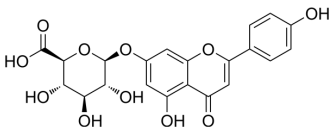
Molecular Weight: 446.36

Target: MMP

Pathway: Metabolic Enzyme/Protease

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 250 mg/mL (560.09 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	2.2403 mL	11.2017 mL	22.4034 mL
5 mM	0.4481 mL	2.2403 mL	4.4807 mL
10 mM	0.2240 mL	1.1202 mL	2.2403 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: ≥ 2.17 mg/mL (4.86 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.08 mg/mL (4.66 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.08 mg/mL (4.66 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Apigenin-7-glucuronide could inhibit Matrix Metalloproteinases (MMP) activities, with IC_{50}s of 12.87, 22.39, 17.52, 0.27 μM for MMP-3, MMP-8, MMP-9, MMP-13, respectively.

IC_{50} & Target

MMP-3	MMP-8	MMP-9	MMP13
12.87 μM (IC_{50})	22.39 μM (IC_{50})	17.52 μM (IC_{50})	0.27 μM (IC_{50})

In Vitro

Apigenin-7-Oglucuronide could inhibit Matrix Metalloproteinases (MMP) activities, with IC_{50}s of 12.87, 22.39, 17.52, 0.27 μM

for MMP-3, MMP-8, MMP-9, MMP-13, respectively [1]. Scutellarin A also inhibits the migrated capacity of ACHN and 786-O cells in a dose-dependent manner. It is also revealed that after treatment with Scutellarin A (30, 60, and 90 μM) for 24 h, the apoptosis rates in ACHN and 786-O cells are remarkably enhanced dose-dependently when compared to the control groups [2].

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

CUSTOMER VALIDATION

- Food Chem Toxicol. 2020 Dec;146:111843.

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REFERENCES

[1]. Crascì L, et al. Correlating In Vitro Target-Oriented Screening and Docking: Inhibition of Matrix Metalloproteinases Activities by Flavonoids. Planta Med. 2017 Jul;83(11):901-911.

[2]. Deng W, et al. Scutellarin inhibits human renal cancer cell proliferation and migration via upregulation of PTEN. Biomed Pharmacother. 2018 Nov;107:1505-1513.

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