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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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7-Hydroxyflavone

Cat. No.: HY-N7108

CAS No.: 6665-86-7

Molecular Formula: $C_{15}H_{10}O_3$

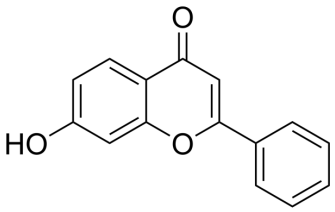
Molecular Weight: 238.24

Target: ERK; Keap1-Nrf2

Pathway: MAPK/ERK Pathway; Stem Cell/Wnt; NF-κB

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 : 125 mg/mL (524.68 mM; Need ultrasonic)

Preparing Stock Solutions

Mass / Solvent / Concentration	1 mg	5 mg	10 mg
1 mM	4.1974 mL	20.9872 mL	41.9745 mL
5 mM	0.8395 mL	4.1974 mL	8.3949 mL
10 mM	0.4197 mL	2.0987 mL	4.1974 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: ≥ 2.08 mg/mL (8.73 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: 2.08 mg/mL (8.73 mM); Suspended solution; Need ultrasonic
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (8.73 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

7-Hydroxyflavone is a flavonoid isolated from Clerodendrum phlomidis, with anti-inflammatory activity. 7-Hydroxyflavone protects renal cells from nicotine (NIC)-associated cytotoxicity via the ERK/Nrf2/HO-1 pathway[1][2].

REFERENCES

[1]. Sengupta B, et al. Differential roles of 3-Hydroxyflavone and 7-Hydroxyflavone against nicotine-induced oxidative stress in rat renal proximal tubule cells. PLoS One.

2017 Jun 22;12(6):e0179777.

[2]. Vinutha K, et al. Aqueous extract from Madhuca indica bark protects cells from oxidative stress caused by electron beam radiation: in vitro, in vivo and in silico approach. Heliyon. 2019 May 30;5(5):e01749.

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