Apiin

Cat. No.: HY-N0577

CAS No.: 26544-34-3

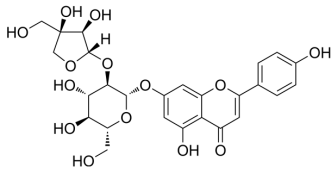
Molecular Formula: $C_{26}H_{28}O_{14}$

Molecular Weight: 564.49

Target: NO Synthase

Pathway: Immunology/Inflammation

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 (177.15 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	1.7715 mL	8.8576 mL	17.7151 mL
	5 mM	0.3543 mL	1.7715 mL	3.5430 mL
	10 mM	0.1772 mL	0.8858 mL	1.7715 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 (4.43 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (4.43 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Apiin, a major constituent of Apium graveolens leaves with anti-inflammatory properties. Apiin shows significant inhibitory activity on nitrite (NO) production (IC_{50} = 0.08 mg/mL) in-vitro and iNOS expression (IC_{50} = 0.049 mg/ mL) in LPS-activated J774.A1 cells[1].

IC_{50} & Target

iNOS

REFERENCES

[1]. Mencherini T, et al. An extract of Apium graveolens var. dulce leaves: structure of the major constituent, apiin, and its anti-inflammatory properties. J Pharm Pharmacol.

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