Avicularin

Cat. No.: HY-N0222

CAS No.: 572-30-5

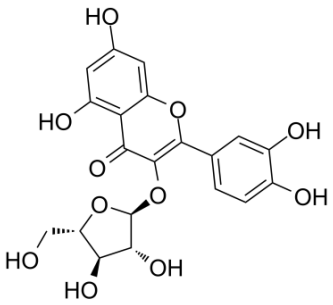
Molecular Formula: $C_{20}H_{18}O_{11}$

Molecular Weight: 434.35

Target: Others

Pathway: Others

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 (**230.23 mM;** Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.3023 mL	11.5115 mL	23.0229 mL
	5 mM	0.4605 mL	2.3023 mL	4.6046 mL
	10 mM	0.2302 mL	1.1511 mL	2.3023 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 (5.76 mM); Clear solution
2. Add each solvent one by one: **10% DMSO >> 90% (20% SBE-β-CD in saline)**
   Solubility: ≥ 2.5 mg/mL (5.76 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Avicularin is a bio-active flavonoid from plants, anti-inflammatory, anti-allergic, anti-oxidant, hepatoprotective, and anti-tumor activities. Avicularin exhibits anti-inflammatory activity through the suppression of ERK signaling pathway in LPS-stimulated RAW 264.7 macrophage cells. Avicularin ameliorates human hepatocellular carcinoma via the regulation of NF κB (p65), COX 2 and PPAR γ activities[1][2].

REFERENCES

[1]. Vo VA, et al. Avicularin Inhibits Lipopolysaccharide-Induced Inflammatory Response by Suppressing ERK Phosphorylation in RAW 264.7 Macrophages. Biomol Ther (Seoul). 2012 Nov;20(6):532-7.

[2]. Wang Z, et al. Avicularin ameliorates human hepatocellular carcinoma via the regulation of NF□κB/COX□2/PPAR□γ activities. Mol Med Rep. 2019 Jun;19(6):5417-5423.

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