3,5,7,3′,4′-Pentamethoxyflavone

Cat. No.: HY-N7690

CAS No.: 1247-97-8

Molecular Formula: $C_{20}H_{20}O_7$

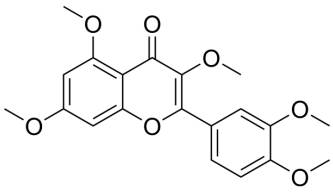
Molecular Weight: 372.37

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 : 25 mg/mL (67.14 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.6855 mL	13.4275 mL	26.8550 mL
	5 mM	0.5371 mL	2.6855 mL	5.3710 mL
	10 mM	0.2686 mL	1.3428 mL	2.6855 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 (6.71 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (6.71 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

3,5,7,3′,4′-Pentamethoxyflavone is a polymethoxyflavonoid that can be extracted from Kaempferia parviflora. 3,5,7,3′,4′-Pentamethoxyflavone can induce adipogenesis on 3T3-L1 preadipocytes by regulating transcription factors at an early stage of differentiation[1].

REFERENCES

[1]. Takumi Horikawa, et al. Polymethoxyflavonoids from Kaempferia parviflora induce adipogenesis on 3T3-L1 preadipocytes by regulating transcription factors at an early stage of differentiation. Biol Pharm Bull. 2012;35(5):686-92.

Caution: Product has not been fully validated for medical applications. For research use only.

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