5,7-Dimethoxyluteolin

Cat. No.: HY-111928

CAS No.: 90363-40-9

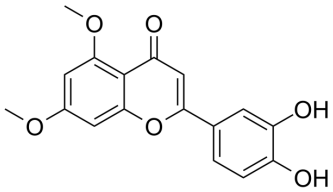
Molecular Formula: $C_{17}H_{14}O_6$

Molecular Weight: 314.29

Target: Dopamine Transporter

Pathway: Neuronal Signaling

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 (318.18 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	3.1818 mL	15.9089 mL	31.8177 mL
	5 mM	0.6364 mL	3.1818 mL	6.3635 mL
	10 mM	0.3182 mL	1.5909 mL	3.1818 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 (7.95 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

5,7-Dimethoxyluteolin, a 5,7-dimethylluteolin derivative, is a dopamine transporter (DAT) activator with an EC_{50} of 3.417 μM [1].

IC_{50} & Target

EC50: 3.417 μM (Dopamine transporter)[1]

REFERENCES

[1]. Jiange Zhang, et al. Discovery and synthesis of novel luteolin derivatives as DAT agonists. Bioorg Med Chem. 2010 Nov 15;18(22):7842-8.

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

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA