4'-Methylchrysoeriol

Cat. No.: HY-112734

CAS No.: 4712-12-3

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

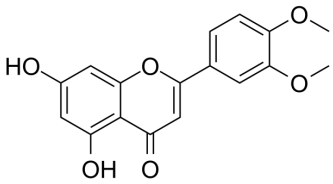
Molecular Weight: 314.29

Target: Cytochrome P450

Pathway: Metabolic Enzyme/Protease

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 : 20.83 mg/mL (66.28 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: 2.08 mg/mL (6.62 mM); Suspended solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

4'-Methylchrysoeriol is a potent inhibitor of Cytochrome P450 enzymes, with an IC_{50} of 19 nM for human P450 1B1-dependent EROD.

IC_{50} & Target

IC50: 19 nM (human P450 1B1-dependent EROD)[1].

In Vitro

4'-Methylchrysoeriol (34DM57DHF) is a potent inhibitor of P450 enzymes, particularly for P450 1B1, with an IC_{50} of 19 nM for human P450 1B1-dependent EROD[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Shimada T, et al. Reverse type I binding spectra of human cytochrome P450 1B1 induced by flavonoid, stilbene, pyrene, naphthalene, phenanthrene, and biphenyl derivatives that inhibit catalytic activity: a structure-function relationship study. Chem Res Toxicol. 2009 Jul;22(7):1325-33.

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