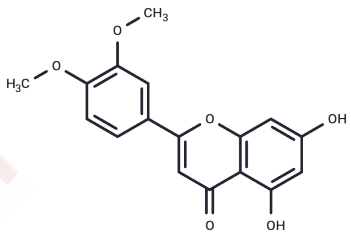
Data Sheet (Cat.No.T10163)

TargetMol

4'-Methylchrysoeriol

Chemical Properties



CAS No. : 4712-12-3

Formula: C17H14O6

Molecular Weight: 314.29

Storage: Store at low temperature
Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	4'-Methylchrysoeriol is a potent inhibitor of cytochrome P450 enzymes (IC50: 19 nM for human P450 1B1-dependent EROD).
Targets(IC50)	Cytochromes P450
In vitro	4'-Methylchrysoerio (3',4'-dimethoxyluteolin) inhibits human P450 1B1-dependent ethoxyallyl alcohol-O-deethylase (EROD) with an IC50 value of 19 nM. [1]

Solubility Information

Solubility	H2O: < 0.1 mg/mL (insoluble) DMSO: 20 mg/mL (63.64 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
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
50 mM	0.0636 mL	0.3182 mL	0.6364 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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.

Ahmed A. Zaki, et al. New flavans and stilbenes from Cyperus conglomeratus. Phytochemistry Letters, 2018, Volume 26 (159-163).