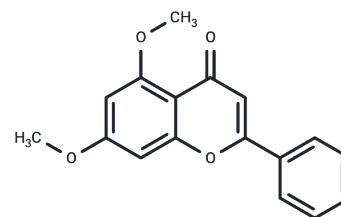


5,7-DIMETHOXYFLAVONE

Chemical Properties

CAS No. :	21392-57-4
Formula:	C ₁₇ H ₁₄ O ₄
Molecular Weight:	282.29
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	5,7-DIMETHOXYFLAVONE possessed remarkable leishmanicidal potential.
Targets(IC50)	Anti-infection,P450
In vitro	The best in vitro trypanocidal activity for T. brucei rhodesiense was exerted by 7,8-dihydroxyflavone (50% inhibitory concentration [IC ₅₀], 68 ng/ml), followed by 3-hydroxyflavone, rhamnetin, and 7,8,3',4'-tetrahydroxyflavone (IC ₅₀ s, 0.5 microg/ml) and catechol (IC ₅₀ , 0.8 microg/ml).?The activity against T. cruzi was moderate, and only Chrysin dimethylether and 3-hydroxydaidzein had IC ₅₀ s less than 5.0 microg/ml.

Solubility Information

Solubility	DMSO: 50 mg/mL (177.12 mM), (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.5425 mL	17.7123 mL	35.4246 mL
5 mM	0.7085 mL	3.5425 mL	7.0849 mL
10 mM	0.3542 mL	1.7712 mL	3.5425 mL
50 mM	0.0708 mL	0.3542 mL	0.7085 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.

Reference

Tasdemir D . Antitrypanosomal and antileishmanial activities of flavonoids and their analogues : In vitro, in vivo, structure-activity relationship, and quantitative structure-activity relationship studies[J]. Antimicrob Agents

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