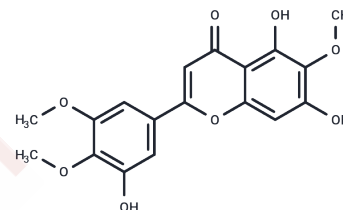


5,7,3'-Trihydroxy-6,4',5'-trimethoxyflavone

Chemical Properties

CAS No. :	78417-26-2
Formula:	C ₁₈ H ₁₆ O ₈
Molecular Weight:	360.31
Storage:	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	5,7,3'-Trihydroxy-6,4',5'-trimethoxyflavone is a natural product derived from *Artemisia argyi*.
Targets(IC50)	Others
In vitro	Foliar flavonoids of <i>Crossostephium chinense</i> in Japan and Taiwan were isolated and further characterized. Eighteen flavonoid aglycones, luteolin, apigenin, hispidulin, chrysoeriol, 5,7,4'-trihydroxy-6,3',5'-trimethoxyflavone, jaceosidin, cilsimaritin, quercetin 3-methyl ether, axillarin, chrysofenol-D, cirsiolol, apometzgerin, 5,7,3'-Trihydroxy-6,4',5'-trimethoxyflavone, luteolin 3',4'-dimethyl ether, cirsilincol, eupatilin, nepetin and 5,7,3',4'-tetrahydroxy-6,5'-dimethoxyflavone, were identified by UV, 1H and 13C NMR spectroscopic, LC-MS and HPLC comparisons with authentic samples. The compounds existed on the leaf surface. Four flavonoid glycosides, quercetin 3,7-di-O-glucoside, quercetin 3-O-rutinoside, luteolin 7-O-glucoside and apigenin 7-O-rutinoside, were also isolated as the intracellular flavonoids.

Solubility Information

Solubility	DMSO: 25 mg/mL (69.38 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 2 mg/mL (5.55 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7754 mL	13.8769 mL	27.7539 mL
5 mM	0.5551 mL	2.7754 mL	5.5508 mL
10 mM	0.2775 mL	1.3877 mL	2.7754 mL
50 mM	0.0555 mL	0.2775 mL	0.5551 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

Further characterization of foliar flavonoids in *Crossostephium chinense* and their geographic variation. *Nat Prod Commun.* 2014 Feb;9(2):163-4.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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