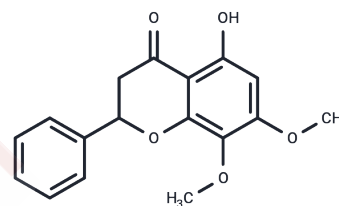


5-Hydroxy-7,8-dimethoxyflavanone

Chemical Properties

CAS No. :	113981-49-0
Formula:	C17H16O5
Molecular Weight:	300.31
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-Hydroxy-7,8-dimethoxyflavanone is isolated from <i>Andrographis paniculata</i> Nees. leaves and roots with anti-inflammatory activity.
Targets(IC50)	NF-κB,HIV Protease,NO Synthase,CCR,IL Receptor,TNF
In vitro	5-Hydroxy-7,8-dimethoxyflavanone efficiently increased the susceptibility of CYP6AA3- and CYP6P7-expressing <i>Spodoptera frugiperda</i> (Sf9) cells to cypermethrin toxicity, due to inhibition effects on mosquito enzymes[1]. 5-Hydroxy-7,8-dimethoxyflavanone significantly decreases TNF-alpha, IL-6, macrophage inflammatory protein-2 (MIP-2), and nitric oxide (NO) secretions from LPS/IFN-gamma stimulated RAW 264.7 cells[2].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.3299 mL	16.6495 mL	33.2989 mL
5 mM	0.666 mL	3.3299 mL	6.6598 mL
10 mM	0.333 mL	1.6649 mL	3.3299 mL
50 mM	0.0666 mL	0.333 mL	0.666 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

- Kotewong R, et al. Structure-function relationships of inhibition of mosquito cytochrome P450 enzymes by flavonoids of *Andrographis paniculata*. *Parasitol Res.* 2014 Sep;113(9):3381-92.
- Chao WW, Kuo YH, Lin BF. Anti-inflammatory activity of new compounds from *Andrographis paniculata* by NF-kappaB transactivation inhibition. *J Agric Food Chem.* 2010 Feb 24;58(4):2505-12.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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