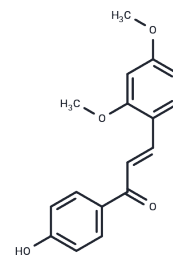


4'-Hydroxy-2,4-dimethoxychalcone

Chemical Properties

CAS No. :	151135-64-7
Formula:	C ₁₇ H ₁₆ O ₄
Molecular Weight:	284.31
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	4'-Hydroxy-2,4-dimethoxychalcone, a naturally occurring chalcone derivative from the herbal resin of the red geranium [Dragon's Blood], exhibits a wide range of biological activities including anti-malarial, anti-bacterial, anti-fungal, and anti-protozoa properties.
Targets(IC50)	Antibacterial,Parasite,Antifungal
In vitro	4'-Hydroxy-2,4-dimethoxychalcone (compound 2) exhibits activity against P. falciparum strains D6 and W2, with IC50 values of 4.2 μM and 4.8 μM, respectively. [1]
In vivo	'Oral administration of 4'-Hydroxy-2,4-dimethoxychalcone (compound 2) at 160 mg/kg in ICR mice resulted in a T1/2 of 1.94 hours, Cmax of 158 ng/mL, and AUC of 384 ng·h/mL.[1]'

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.5173 mL	17.5864 mL	35.1729 mL
5 mM	0.7035 mL	3.5173 mL	7.0346 mL
10 mM	0.3517 mL	1.7586 mL	3.5173 mL
50 mM	0.0703 mL	0.3517 mL	0.7035 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

Gutteridge CE, et al. In vitro biotransformation, in vivo efficacy and pharmacokinetics of antimalarial chalcones. *Pharmacology*. 2011;87(1-2):96-104.

Qing-An Zheng, et al. Flavonoids from the Resin of *Dracaena cochinchinensis*. *Helvetica Chimica Acta*, 87(5), 1167-1171.

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