

Scutellarein tetramethyl ether

Chemical Properties

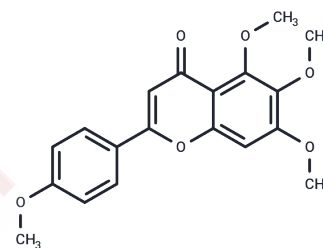
CAS No. : 1168-42-9

Formula: C₁₉H₁₈O₆

Molecular Weight: 342.34

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	Scutellarein tetramethyl ether (4',5,6,7-Tetramethoxyflavone) is extracted from Siam weeds and demonstrates anti-inflammatory activity via the NF-κB pathway.
Targets(IC50)	NF-κB,Antibacterial,NO Synthase,COX,PAFR
In vitro	Scutellarein tetramethyl ether modulates of bacterial drug resistance via efflux pump inhibition[1]. Scutellarein tetramethyl ether enhances blood coagulation[3].

Solubility Information

Solubility	DMSO: 45 mg/mL (131.45 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (5.84 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	2.9211 mL	14.6054 mL	29.2107 mL
5 mM	0.5842 mL	2.9211 mL	5.8421 mL
10 mM	0.2921 mL	1.4605 mL	2.9211 mL
50 mM	0.0584 mL	0.2921 mL	0.5842 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

Maia GL, et al. Flavonoids from *Praxelis clematidea* R.M. King and Robinson modulate bacterial drug resistance. *Molecules*. 2011 Jun 10;16(6):4828-35.

Zhang X, Wang J, Fu J, et al. Dissecting the antitumor effects of *Scutellaria barbata*: initial insights into the metabolism of scutellarin and luteolin by gut microbiota. *Journal of Pharmaceutical and Biomedical Analysis*. 2024: 116325.

Pandith H, et al. Effect of Siam weed extract and its bioactive component scutellarein tetramethyl ether on anti-inflammatory activity through NF- κ B pathway. *J Ethnopharmacol*. 2013 May 20;147(2):434-41.

Tiratana T, et al. Effect of *Eupatorium odoratum* on blood coagulation. *J Med Assoc Thai*. 1991 May;74(5):283-7.

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