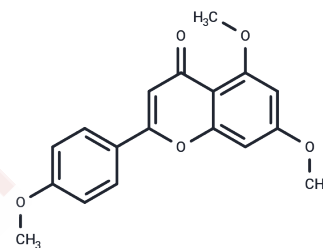


5,7,4'-Trimethoxyflavone

Chemical Properties

CAS No. : 5631-70-9
 Formula: C₁₈H₁₆O₅
 Molecular Weight: 312.32
 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 | 5,7,4'-Trimethoxyflavone (4',5,7-Trimethoxyflavone) is isolated from Kaempferia parviflora (KP) which is a medicinal plant from Thailand. |
| Targets(IC50) | Apoptosis,Caspase,Endogenous Metabolite,CFTR,PARP |
| In vitro | 5,7,4'-Trimethoxyflavone induces apoptosis, as evidenced by increments of sub-G1 phase, DNA fragmentation, annexin-V/PI staining, the Bax/Bcl-xL ratio, proteolytic activation of caspase-3, and degradation of PARP protein. 5,7,4'-Trimethoxyflavone is significantly effective at inhibiting the proliferation of SNU-16 human gastric cancer cells in a concentration-dependent manner. |

Solubility Information

| | |
|---------------------|---|
| Solubility | DMSO: 45.4 mg/mL (145.36 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 (6.4 mM),Sonication is recommended. 10% DMSO+90% Saline: 4.55 mg/mL (14.57 mM),Suspension. <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 | 3.2018 mL | 16.0092 mL | 32.0184 mL |
| 5 mM | 0.6404 mL | 3.2018 mL | 6.4037 mL |
| 10 mM | 0.3202 mL | 1.6009 mL | 3.2018 mL |
| 50 mM | 0.064 mL | 0.3202 mL | 0.6404 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

Kim H, et al. Induction of ER Stress-Mediated Apoptosis by the Major Component 5,7,4'-Trimethoxyflavone isolated from *Kaempferia parviflora* Tea Infusion. *Nutr Cancer*. 2018 Aug-Sep;70(6):984-996.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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