

Farrerol

Chemical Properties

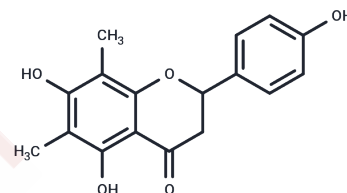
CAS No. : 24211-30-1

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	1. Farrerol has antioxidative activity. 2. Farrerol modulates TAP and BNBD5 gene expression in mammary gland, enhances bMEC defense against <i>S. aureus</i> infection and could be useful in protection against bovine mastitis. 3. Farrerol inactivates KEAP-1 or activates the Akt, p38 and ERK to facilitate the release of Nrf2 from Keap1 and subsequent reduces the intracellular production of reactive oxygen species via the induction of HO-1 expression. 4. Farrerol has protective effects against H ₂ O ₂ -induced apoptosis in EA.hy926 cells, and suggests that Farrerol is a potential candidate for the intervention of endothelial-injury-associated cardiovascular diseases.
Targets(IC50)	ERK, Akt, p38 MAPK

Solubility Information

Solubility	Chloroform, Dichloromethane, Ethyl Acetate, Acetone, etc.: Soluble, DMSO: 245 mg/mL (815.82 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 (6.66 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	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

Liu E , Liang T , Wang X , et al. Apoptosis induced by farrerol in human gastric cancer SGC-7901 cells through the mitochondrial-mediated pathway[J]. European journal of cancer prevention: the official journal of the European Cancer Prevention Organisation (ECP), 2015, 24(5):365.

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