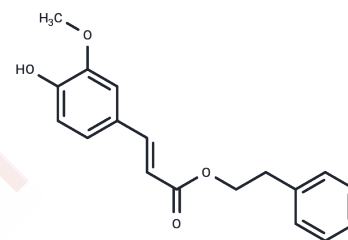


Phenethyl ferulate

Chemical Properties

CAS No. :	71835-85-3
Formula:	C18H18O4
Molecular Weight:	298.33
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	Phenethyl ferulate (Caffeic Acid 3-Methyl Phenethyl Ester) has chemopreventive properties against chemically induced colon carcinogenesis. It enhances apoptosis in azoxymethane induced colon tumors. It shows inhibitory activity against cyclooxygenase (COX) and 5-lipoxygenase (5-LOX) with IC ₅₀ values of 4.35 μM and 5.75 μM, respectively.
Targets(IC ₅₀)	COX,Lipoxygenase

Solubility Information

Solubility	DMSO: 2.99 mg/mL (10.02 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: 1 mg/mL (3.35 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	3.352 mL	16.760 mL	33.5199 mL
5 mM	0.6704 mL	3.352 mL	6.704 mL
10 mM	0.3352 mL	1.676 mL	3.352 mL
50 mM	0.067 mL	0.3352 mL	0.6704 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

Samaha HS, et al. Modulation of apoptosis by sulindac, curcumin, phenylethyl-3-methylcaffeate, and 6-phenylhexyl isothiocyanate: apoptotic index as a biomarker in colon cancer chemoprevention and promotion. *Cancer Res.* 1997 Apr 1;57(7):1301-5.

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