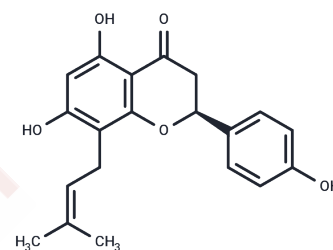


8-Prenylnaringenin

Chemical Properties

CAS No. :	53846-50-7
Formula:	C ₂₀ H ₂₀ O ₅
Molecular Weight:	340.37
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	8-Prenylnaringenin is a phytoestrogen with high estrogenic activity,
Targets(IC50)	Apoptosis,Akt,AMPK,PI3K,ROS,Sirtuin
In vitro	In vitro, aggregates of buccal epithelial cells were irradiated and cultured in suspension for 11 days. 8-PN or TAM were investigated regarding their effect on cell shedding. In vivo, the lower tongue surface of mice was irradiated with graded single doses of 25 kV X-rays. The incidence, latency, and duration of the resulting mucosal ulcerations were analyzed after topical treatment with 8-PN, TAM or solvent. 8-PN or TAM prevented the volume reduction of the irradiated cell aggregates during the incubation period. This was the result of a higher residual cell number in the treated versus the untreated irradiated aggregates. In vivo, topical treatment with 8-PN or TAM significantly increased the latency of mucositis from 10.9 to 12.1 and 12.4 days respectively, while the ulcer incidence was unchanged[1]

Solubility Information

Solubility	DMSO: 22.5 mg/mL (66.1 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 (5.88 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	2.938 mL	14.6899 mL	29.3798 mL
5 mM	0.5876 mL	2.938 mL	5.876 mL
10 mM	0.2938 mL	1.469 mL	2.938 mL
50 mM	0.0588 mL	0.2938 mL	0.5876 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

8-prenylnaringenin and tamoxifen inhibit the shedding of irradiated epithelial cells and increase the latency period of radiation-induced oral mucositis : cell culture and murine model. *Strahlenther Onkol.* 2015 May;191(5): 429-36.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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