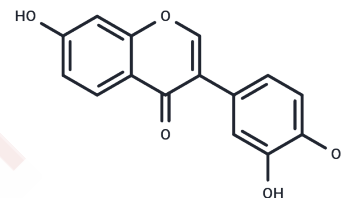


3',4',7-Trihydroxyisoflavone

Chemical Properties

CAS No. :	485-63-2
Formula:	C15H10O5
Molecular Weight:	270.24
Storage:	Store under nitrogen Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	3',4',7-Trihydroxyisoflavone is a soy isoflavone soy glycoside derivative and Cot (Tpl2/MAP3K8) and MKK4 inhibitor with anticancer, antiangiogenic and free radical scavenging properties. 3',4',7-Trihydroxyisoflavone enhances memory effects through modulation of cholinergic function and BDNF signaling pathway in mice. 3',4',7-Trihydroxyisoflavone can improve skin barrier function impaired by endogenous or exogenous glucocorticoids and can be used in the study of atopic dermatitis. 3',4',7-Trihydroxyisoflavone enhances memory effects by modulating cholinergic function and BDNF signaling pathway in mice. It can improve the skin barrier function impaired by endogenous or exogenous glucocorticoids, and can be used in the study of atopic dermatitis.
Targets(IC50)	Apoptosis,MAPK,JNK

Solubility Information

Solubility	DMSO: 150 mg/mL (555.06 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: 3.3 mg/mL (12.21 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	3.7004 mL	18.5021 mL	37.0041 mL
5 mM	0.7401 mL	3.7004 mL	7.4008 mL
10 mM	0.370 mL	1.8502 mL	3.7004 mL
50 mM	0.074 mL	0.370 mL	0.7401 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

Yu-Li Lo, et al. 7,3',4'-Trihydroxyisoflavone modulates multidrug resistance transporters and induces apoptosis via production of reactive oxygen species. *Toxicology*. 2012 Dec 16;302(2-3):221-32.

Dong Eun Lee, et al. 7,3',4'-Trihydroxyisoflavone, a metabolite of the soy isoflavone daidzein, suppresses ultraviolet B-induced skin cancer by targeting Cot and MKK4. *J Biol Chem*. 2011 Apr 22;286(16):14246-56.

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