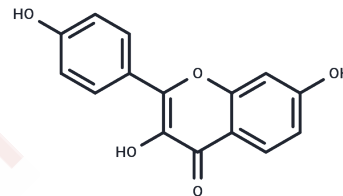


3,7,4'-Trihydroxyflavone

Chemical Properties

CAS No. :	2034-65-3
Formula:	C ₁₅ H ₁₀ O ₅
Molecular Weight:	270.24
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	3,7,4'-Trihydroxyflavone(5-Deoxykempferol) is a DNA-breaking flavonoid isolated from rosewood heartwood. It inhibits osteoclast differentiation, actin ring formation, and bone resorption in RAW 264.7 cells and bone marrow macrophages induced by NF-κB ligand (RANKL) receptor activators.
Targets(IC50)	DNA,DNA/RNA Synthesis,Leukotriene Receptor,ROS

Solubility Information

Solubility	DMSO: 250 mg/mL (925.1 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: 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

Lin CN, et al. Flavonoids with DNA strand-scission activity from *Rhus javanica* var. *roxburghiana*. *Fitoterapia*. 2008 Jan;79(1):32-6. Epub 2007 Aug 9.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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