

Apigenin 7-glucoside

Chemical Properties

CAS No. : 578-74-5

Formula: C₂₁H₂₀O₁₀

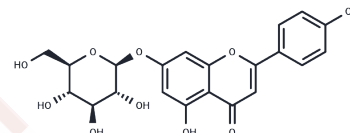
Molecular Weight: 432.38

Store at low temperature, Keep away from direct sunlight

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. Apigenin 7-glucoside (Cosmosiin) is an anti-HIV agent. 2. Cosmosiin may be beneficial for diabetic complications through their enhanced adiponectin secretion, tyrosine phosphorylation of insulin receptor- β and GLUT4 translocation.
Targets(IC50)	Reactive Oxygen Species, HIV Protease, ROS

Solubility Information

Solubility	DMSO: 252.5 mg/mL (583.98 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 (4.63 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	2.3128 mL	11.5639 mL	23.1278 mL
5 mM	0.4626 mL	2.3128 mL	4.6256 mL
10 mM	0.2313 mL	1.1564 mL	2.3128 mL
50 mM	0.0463 mL	0.2313 mL	0.4626 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

Rao Y K , Lee M J , Chen K , et al. Insulin-Mimetic Action of Rhoifolin and Cosmosiin Isolated from Citrus grandis (L.) Osbeck Leaves: Enhanced Adiponectin Secretion and Insulin Receptor Phosphorylation in 3T3-L1 Cells[J]. Evidence-based Complementary and Alternative Medicine, 2009, 2011(1741-427X):624375.

Fernández-Pérez R, Ayuso S, Moreta C, et al. Chemical Profile and Antibacterial Activity of Vitis vinifera L. cv Graciano Pomace Extracts Obtained by Green Supercritical CO₂ Extraction Method Against Multidrug-Resistant Escherichia coli Strains. Foods. 2024, 14(1): 17.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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