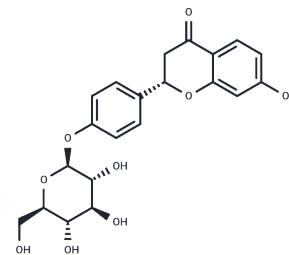


Liquiritin

Chemical Properties

CAS No. :	551-15-5
Formula:	C ₂₁ H ₂₂ O ₉
Molecular Weight:	418.39
Storage:	Keep away from direct sunlight 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	Liquiritin (Liquiritigenin-4'-O-glucoside) (LIQ) is a main component among the licorice flavonoids, and possesses anti-inflammatory and anti-cancer abilities.
Targets(IC50)	Reactive Oxygen Species, ROS

Solubility Information

Solubility	DMSO: 150 mg/mL (358.52 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: 4 mg/mL (9.56 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	2.3901 mL	11.9506 mL	23.9011 mL
5 mM	0.478 mL	2.3901 mL	4.7802 mL
10 mM	0.239 mL	1.1951 mL	2.3901 mL
50 mM	0.0478 mL	0.239 mL	0.478 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

Zhang W, et al. Biomed Chromatogr. 2014 Sep;28(9):1271-7.

Xu Y, Cai Q, Zhao C, et al. Gegen Qinlian Decoction Attenuates Colitis-Associated Colorectal Cancer via Suppressing TLR4 Signaling Pathway Based on Network Pharmacology and In Vivo/In Vitro Experimental Validation. Pharmaceuticals.2024, 18(1): 12.

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