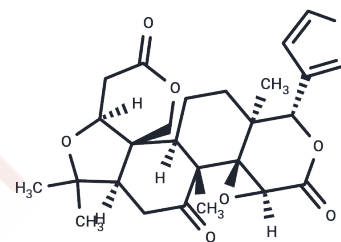


Limonin

Chemical Properties

CAS No. :	1180-71-8
Formula:	C ₂₆ H ₃₀ O ₈
Molecular Weight:	470.51
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	Limonin (Citrolimonin) is a triterpenoid enriched in citrus fruits, which has antiviral and antitumor ability.
Targets(IC50)	Apoptosis, HIV Protease, Endogenous Metabolite, Cytochromes P450, P-gp
In vivo	Limonin is an effective antiproliferative agent that inhibits the proliferation of human hepatocellular carcinoma HepG2 cells by regulating cell apoptosis and the Wnt signaling pathway. Additionally, Limonin suppresses the replication of Human Immunodeficiency Virus-1 (HIV-1) in cultured human peripheral blood mononuclear cells (PBMC) with an EC50 of 60 μM.

Solubility Information

Solubility	DMSO: 50 mg/mL (106.27 mM), Sonication is recommended. Ethanol: < 1 mg/mL (insoluble or slightly soluble), H ₂ O: < 1 mg/mL (insoluble or slightly soluble), (< 1 mg/mL refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1254 mL	10.6268 mL	21.2535 mL
5 mM	0.4251 mL	2.1254 mL	4.2507 mL
10 mM	0.2125 mL	1.0627 mL	2.1254 mL
50 mM	0.0425 mL	0.2125 mL	0.4251 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

Battinelli L, et al. Planta Med, 2003, 69(10), 910-913.

Matsuda H, et al. Planta Med, 1998, 64(4), 339-342.

Langeswaran K, et al. J Nat Sci Biol Med, 2013, 4(1), 126-133.

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