

3'-Geranyl-3-prenyl-2',4',5,7-tetrahydroxyflavone

Chemical Properties

CAS No. : 1334309-44-2

Formula: C₃₀H₃₄O₆

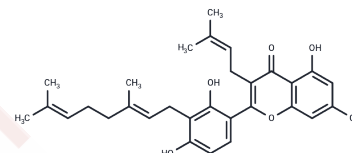
Molecular Weight: 490.59

Storage:

Store at low temperature, Keep away from direct sunlight

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'-Geranyl-3-prenyl-2',4',5,7-tetrahydroxyflavone is a cytotoxic flavonoid from <i>Morus alba</i> that induces apoptosis.
Targets(IC50)	Apoptosis
In vitro	The structure of the new 3'-Geranyl-3-prenyl-2',4',5,7-tetrahydroxyflavone (1) was elucidated by means of spectroscopic methods. The cytotoxicity of the isolated compounds against human cervical carcinoma HeLa, human breast carcinoma MCF-7, and human hepatocarcinoma Hep3B cells was evaluated. Of note, morusin (9) was the most potent with an IC(50) value of 0.64 μM against HeLa cells.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0384 mL	10.1918 mL	20.3836 mL
5 mM	0.4077 mL	2.0384 mL	4.0767 mL
10 mM	0.2038 mL	1.0192 mL	2.0384 mL
50 mM	0.0408 mL	0.2038 mL	0.4077 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

Dat NT, et al. Cytotoxic prenylated flavonoids from *Morus alba*. *Fitoterapia*. 2010;81(8):1224-1227.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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