

Gyenoside LI

Chemical Properties

CAS No. : 94987-10-7

Formula: C42H72O14

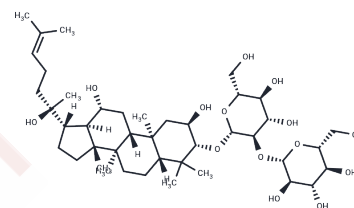
Molecular Weight: 801.02

Storage:

Keep away from moisture, 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	Gyenoside LI is a natural product with anticancer activity that generates ROS, downregulates procaspase-8 and MMP-2/9, inhibits Wnt/ β -catenin signaling, and induces cell cycle arrest and apoptosis.
Targets(IC50)	Apoptosis, MMP, Cell Cycle Arrest, Caspase, ROS, Wnt/beta-catenin
In vitro	Gyenoside LI (0-80 μ M) dose-dependently inhibited the activity of A549 cells, inducing G2/M phase cell cycle arrest and apoptosis in these cells [1]. Gyenoside LI (75 and 29.71 μ g/mL) could induce endogenous apoptosis in cells, accompanied by S-phase cell cycle arrest. Gyenoside LI reduced the colony-forming ability of melanoma cells by inhibiting the Wnt/ β -catenin signaling pathway [2].

Solubility Information

Solubility	DMSO: 80.00 mg/mL (99.87 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.2484 mL	6.242 mL	12.4841 mL
5 mM	0.2497 mL	1.2484 mL	2.4968 mL
10 mM	0.1248 mL	0.6242 mL	1.2484 mL
50 mM	0.025 mL	0.1248 mL	0.2497 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

Shao-Fang Xing, et al. The inhibitory effect of gypenoside stereoisomers, gypenoside L and gypenoside LI, isolated from *Gynostemma pentaphyllum* on the growth of human lung cancer A549 cells. *J Ethnopharmacol.* 2018 Jun 12;219:161-172.

Ma-Li Zu, et al. Monomer gypenoside LI from *Gynostemma pentaphyllum* inhibits cell proliferation and upregulates expression of miR-128-3p in melanoma cells. *J Biochem Mol Toxicol.* 2020 May;34(5):e22460.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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