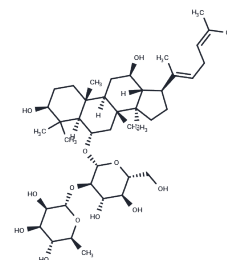


Ginsenoside F4

Chemical Properties

CAS No. :	181225-33-2
Formula:	C ₄₂ H ₇₀ O ₁₂
Molecular Weight:	767.01
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	Ginsenoside F4 exerts inhibitory effects on human lymphocytoma JK cells by inducing apoptosis. The mechanism of action involves mitochondrial dysfunction, increased Bax expression, and reduced Bcl-2 expression, together resulting in programmed cell death.
Targets(IC50)	Apoptosis, MMP, Bcl-2 Family, IL Receptor
In vitro	Methods: Ginsenoside F4 (8.15 μM, 65.19 μM, 130.38 μM) was used to treat Homo sapiens lymphoblastoma JK cells, and the expression of related proteins was detected by Western Blot. Results: Ginsenoside F4 induced apoptosis in Homo sapiens lymphoblastoma JK cells by downregulating Bcl-2 protein and upregulating Bax protein levels, which are key regulators associated with apoptosis, demonstrating its antitumor effects. [1]

Solubility Information

Solubility	DMSO: 40 mg/mL (52.15 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: 1 mg/mL (1.3 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	1.3038 mL	6.5188 mL	13.0376 mL
5 mM	0.2608 mL	1.3038 mL	2.6075 mL
10 mM	0.1304 mL	0.6519 mL	1.3038 mL
50 mM	0.0261 mL	0.1304 mL	0.2608 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

Chen B, et al. The apoptosis-inducing effect of ginsenoside F4 from steamed notoginseng on human lymphocytoma JK cells. *Nat Prod Res.* 2013;27(24):2351-4.

Lee JH, et al. Ginsenosides from Korean red ginseng inhibit matrix metalloproteinase-13 expression in articular chondrocytes and prevent cartilage degradation. *Eur J Pharmacol.* 2014 Feb 5;724:145-51.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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