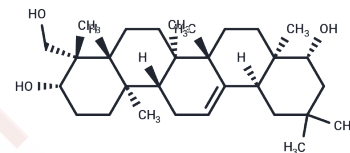


Soyasapogenol B

Chemical Properties

CAS No. :	595-15-3
Formula:	C ₃₀ H ₅₀ O ₃
Molecular Weight:	458.72
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	Soyasapogenol B has anti-cancer, hypocholesterolemic, anticomplementary, hepatoprotective effects, it inhibits proliferation of cultured Hep-G2.
Targets(IC50)	Apoptosis, Autophagy
In vitro	Glycyrrhizin showed significant dose-dependent protective effects against the cytotoxicity of t-BuOOH. Among Soyasapogenol B and its glucuronides, the monoglucuronide showed the most potent hepatoprotective activity, followed by Soyasapogenol B itself. Soyasaponin III was weakly protective, while soyasaponin I increased the toxicity of t-BuOOH. Among sophoradiol and its glucuronides, sophoradiol itself showed the most potent hepatoprotective activity, which was equal to glycyrrhizin, while the monoglucuronide and kaikasaponin III showed an increase in cytotoxicity. These results were considerably different from those reported previously on the protective effects of these compounds using primary cultures of immunologically injured rat liver cells[1]

Solubility Information

Solubility	DMSO: 50 mg/mL (109 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 2 mg/mL (4.36 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	2.180 mL	10.8999 mL	21.7998 mL
5 mM	0.436 mL	2.180 mL	4.360 mL
10 mM	0.218 mL	1.090 mL	2.180 mL
50 mM	0.0436 mL	0.218 mL	0.436 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

Hepatoprotective constituents in plants. 14. Effects of soyasapogenol B, sophoradiol, and their glucuronides on the cytotoxicity of tert-butyl hydroperoxide to HepG2 cells. *Biol Pharm Bull.* 2003 Sep;26(9):1357-60.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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