

Saikogenin A

Chemical Properties

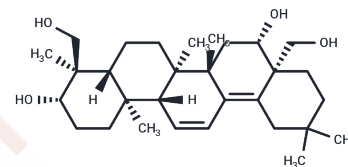
CAS No. : 5092-09-1

Formula: C₃₀H₄₈O₄

Molecular Weight: 472.7

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	Saikogenin A is a dipeptidyl peptidase-4 inhibitor.
Targets(IC50)	Proteasome,DPP-4
In vitro	Saikogenin A has a certain inhibitory effect on the enzyme DPP-IV. At a concentration of 20 µg/mL DPP-IV inhibition is 47.6% [1].
In vivo	Saikogenin A is less effective in adrenalectomized rats than in normal rats in reducing the carrageenin-induced edema. The anti-inflammatory action of Saikogenin A is due to an increase in corticosterone caused by the release of adrenocorticotrophic hormone and a direct effect on the process of inflammation [2].

Solubility Information

Solubility	DMSO: 60 mg/mL (126.93 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: 2 mg/mL (4.23 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	2.1155 mL	10.5775 mL	21.1551 mL
5 mM	0.4231 mL	2.1155 mL	4.231 mL
10 mM	0.2116 mL	1.0578 mL	2.1155 mL
50 mM	0.0423 mL	0.2116 mL	0.4231 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

Pharmaceutical application of saikogenin A. CN107375300A.

Cheng JT, et al. Anti-inflammatory effect of Saikogenin A. *Biochem Pharmacol.* 1986 Aug 1;35(15):2483-7.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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