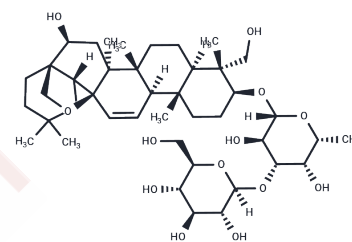


Saikosaponin A

Chemical Properties

CAS No. :	20736-09-8
Formula:	C42H68O13
Molecular Weight:	780.98
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	Saikosaponin A has a variety of pharmacological benefits, including antiepileptic, anti-osteoporosis, antioxidant, anti-inflammatory, immunomodulatory, and anti-bacterial activities. It can effectively attenuate neuropathic pain in CCI rats by inhibiting the activation of p38 MAPK and NF-κB signaling pathways in spinal cord. It can inhibit NMDA receptor current and persistent sodium current, and inhibit the TNF-α level, the IL-1β production, and cysteine-aspartic acid protease (caspase)-1 activity.
Targets(IC50)	NF-κB, Antibacterial, Liver X Receptor

Solubility Information

Solubility	DMSO: 50 mg/mL (64.02 mM), Sonication is recommended. Ethanol: 30 mg/mL (38.41 mM), Sonication is recommended. H2O: Insoluble, (< 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 (2.56 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	1.2804 mL	6.4022 mL	12.8044 mL
5 mM	0.2561 mL	1.2804 mL	2.5609 mL
10 mM	0.128 mL	0.6402 mL	1.2804 mL
50 mM	0.0256 mL	0.128 mL	0.2561 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

Zhao H, et al. *Exp Ther Med*. 2015 Aug;10(2):823-827.

Wu SJ, et al. Curcumin or saikosaponin a improves hepatic antioxidant capacity and protects against CCl₄-induced liver injury in rats. *J Med Food*. 2008 Jun;11(2):224-9.

Yoon SS, et al. Effect of saikosaponin A on maintenance of intravenous morphine self-administration. *Neurosci Lett*. 2012 Oct 31;529(1):97-101.

Wu SJ, et al. Curcumin and saikosaponin a inhibit chemical-induced liver inflammation and fibrosis in rats. *Am J Chin Med*. 2010;38(1):99-111.

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