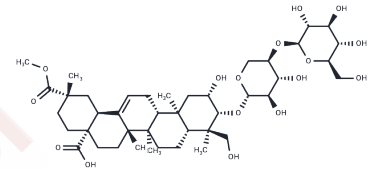


Esculentoside A

Chemical Properties

CAS No. :	65497-07-6
Formula:	C42H66O16
Molecular Weight:	826.96
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	Esculentoside A can suppress inflammatory responses in LPS-induced ALI through inhibition of the NF-κB and mitogen-activated protein kinase signaling pathways. Esculentoside A may be useful for the treatment of autoimmune disease through modulation on T cell-mediated adaptive immunity. Esculentoside A may play significant roles in the treatment of BXSB mice through modulation of inflammatory cytokines, inhibition of renal cell proliferation and induction of apoptosis.
Targets(IC50)	NF-κB, COX

Solubility Information

Solubility	DMSO: 250 mg/mL (302.31 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 (2.42 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	1.2092 mL	6.0462 mL	12.0925 mL
5 mM	0.2418 mL	1.2092 mL	2.4185 mL
10 mM	0.1209 mL	0.6046 mL	1.2092 mL
50 mM	0.0242 mL	0.1209 mL	0.2418 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

Zhong WT, et al. Protective effect of esculentoside A on lipopolysaccharide-induced acute lung injury in mice. *J Surg Res.* 2013 Nov;185(1):364-72.

Ma H, et al. The effect of esculentoside A on lupus nephritis-prone BXSB mice. *Arch Med Sci.* 2013 Apr 20;9(2):354-60.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel: 781-999-4286 E_mail: info@targetmol.com Address: 34 Washington Street, Wellesley Hills, MA 02481