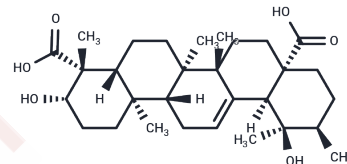


Ilexgenin A

Chemical Properties

CAS No. :	108524-94-3
Formula:	C ₃₀ H ₄₆ O ₆
Molecular Weight:	502.68
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	Ilexgenin A is a novel pentacyclic triterpenoid, is a compound extracted from leaves of Ilex hainanensis Merr
Targets(IC50)	IL Receptor, TNF
In vitro	Ilexgenin A (IA), a novel pentacyclic triterpenoid, is a compound extracted from leaves of Ilex hainanensis Merr. treatment with IA attenuated atherosclerosis in high-fat diet-induced apolipoprotein E deficient mice via a series of effects involving regulation of lipid parameters, decrease of atherosclerosis-related indexes, inhibition of inflammatory cytokines secretion and pathological changes of main organs. The underlying mechanism of IA was investigated on oxidized low-density lipoprotein (Ox-LDL)-induced THP-1 cells. Pre-treatment with IA decreased active inflammation cytokines involving interleukin-6 (IL-6), IL-1 and tumor necrosis factor- α (TNF- α) expression in a concentration-dependent manner. IA inhibited the phosphatidylinositol 3-kinase (PI3K), protein kinase B (Akt), IKK α phosphorylation and NF- κ B activity induced by Ox-LDL. Overall, these findings define IA as a novel drug candidate for anti-atherosclerotic therapy[2].

Solubility Information

Solubility	DMSO: 11 mg/mL (21.88 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 1 mg/mL (1.99 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	1.9893 mL	9.9467 mL	19.8934 mL
5 mM	0.3979 mL	1.9893 mL	3.9787 mL
10 mM	0.1989 mL	0.9947 mL	1.9893 mL
50 mM	0.0398 mL	0.1989 mL	0.3979 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

Inhibition of lipolysis by ilexgenin A via AMPK activation contributes to the prevention of hepatic insulin resistance. *Eur J Pharmacol.* 2017 Oct 15;813:84-93.

Liu C , Zhao J , Liu Y X , et al. A novel pentacyclic triterpenoid, Ilexgenin A, shows reduction of atherosclerosis in apolipoprotein E deficient mice[J]. *International Immunopharmacology*, 2016, 40:115-124.

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