

Ilexhainanoside D

Chemical Properties

CAS No. : 1137648-52-2

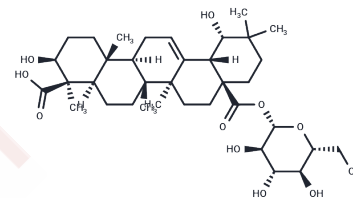
Formula: C₃₆H₅₆O₁₁

Molecular Weight: 664.82

Keep away from direct sunlight

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	Ilexhainanoside D is the major triterpenoid saponin isolated from <i>Ilex hainanensis</i> Merr, and it exerts significant anti-inflammatory activity when used in combination with Ilexsaponin A1.
Targets(IC50)	Others
In vivo	Combined administration of Ilexhainanoside D and Ilexsaponin A (at doses of 60, 120 or 240 mg/kg for 8 consecutive weeks) significantly alleviated the pathological conditions of non-alcoholic fatty liver disease (NAFLD) induced by a high-fat diet in a dose-dependent manner. This combined intervention downregulated the Firmicutes/Bacteroidetes ratio and reduced the relative abundance of <i>Desulfovibrio</i> , while increasing the relative proportion of <i>Akkermansia</i> . The expression levels of zonula occludens-1 (ZO-1) and occludin in the ileal tissue were significantly elevated, indicating an effective improvement in intestinal barrier function. Meanwhile, this combined treatment also inhibited the entry of lipopolysaccharide (LPS) into the blood circulation and markedly downregulated the gene expression levels of proinflammatory cytokines in hepatic tissue [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.5042 mL	7.5208 mL	15.0417 mL
5 mM	0.3008 mL	1.5042 mL	3.0083 mL
10 mM	0.1504 mL	0.7521 mL	1.5042 mL
50 mM	0.0301 mL	0.1504 mL	0.3008 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 W, et al. The combination of Ilexhainanoside D and ilexaponin A1 reduces liver inflammation and improves intestinal barrier function in mice with high-fat diet-induced non-alcoholic fatty liver disease. *Phytomedicine*. 2019 Jul 26;63:153

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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