

3-O-Acetyloleanolic acid

Chemical Properties

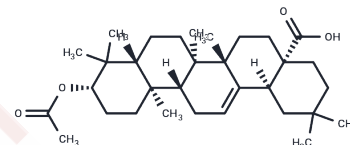
CAS No. : 4339-72-4

Formula: C₃₂H₅₀O₄

Molecular Weight: 498.74

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	3-O-acetyloleanolic acid dose-dependently inhibited the viability of HCT-116 cells. Apoptosis was characterized by detection of cell surface annexin V and sub-G1 apoptotic cell populations.
Targets(IC50)	Apoptosis
In vitro	Expression of TRAIL-mediated apoptosis signaling-related death receptor DR5 was increased in 3-O-acetyloleanolic acid-treated HCT-116 cells. Activation of caspase-8 and caspase-3, critical mediators of extrinsic apoptosis signaling, was also increased by 3-O-acetyloleanolic acid. 3-O-acetyloleanolic acid induces apoptosis in HCT-116 cells mediated by an extrinsic apoptosis signaling cascade via up-regulation of DR5.
Cell Research	Modulation of phosphatidylserine externalization during apoptosis was measured using annexin V conjugated with the fluorescent dye fluorescein isothiocyanate (FITC). The HCT-116 cells were seeded onto 6-well plates at a density of 3*10 ⁵ cells/well. After treatment with 25 uM 3-O-acetyloleanolic acid for 6 h, the cells were stained with the annexin V-FITC conjugate, and then imaged at a ⁴⁰ objective magnification using a confocal laser scanning microscope.

Solubility Information

Solubility	DMSO: 2.5 mg/mL (5.01 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0051 mL	10.0253 mL	20.0505 mL
5 mM	0.401 mL	2.0051 mL	4.0101 mL
10 mM	0.2005 mL	1.0025 mL	2.0051 mL
50 mM	0.0401 mL	0.2005 mL	0.401 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

Yoo K H , Park J H , Cui E J , et al. 3-O-Acetyloleanolic Acid Induces Apoptosis in Human Colon Carcinoma Hct-116 Cells[J]. Phytotherapy Research, 2012, 26(10):1541-1546.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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