

3-Acetyl-beta-boswellic acid

Chemical Properties

CAS No. : 5968-70-7

Formula: C₃₂H₅₀O₄

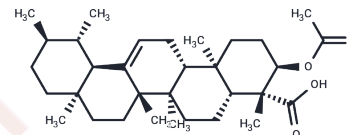
Molecular Weight: 498.74

Storage:

Store at low temperature, Keep away from direct sunlight

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-Acetyl-beta-boswellic acid has antitumor activity, it inhibits synthesis of DNA, RNA and protein in human leukemia HL-60 cells in a dose dependent manner with IC ₅₀ values ranging from 0.6 to 7.1 microM.
Targets(IC ₅₀)	DNA/RNA Synthesis
In vitro	They inhibited the synthesis of DNA, RNA and protein in human leukemia HL-60 cells in a dose dependent manner with IC ₅₀ values ranging from 0.6 to 7.1 microM. Among them, compound 4 induced the most pronounced inhibitory effects on DNA, RNA and protein synthesis with IC ₅₀ values of 0.6, 0.5, and 4.1 microM, respectively.

Solubility Information

Solubility	DMSO: 30 mg/mL (60.15 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 3 mg/mL (6.02 mM), Solution. <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	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

Inhibitory activity of boswellic acids from *Boswellia serrata* against human leukemia HL-60 cells in culture. *Planta Med.* 1998 May;64(4):328-31.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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