

3-Acetyl-beta-boswellic acid

Chemical Properties

CAS No. : 5968-70-7

Formula: C₃₂H₅₀O₄

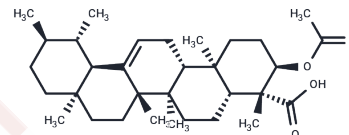
Molecular Weight: 498.74

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

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|----------------------------|--|
| 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

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| Solubility | DMSO: 30 mg/mL (60.15 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

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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