

18-Nor-4,15-dihydroxyabieta-8,11,13-trien-7-one

Chemical Properties

CAS No.:	213329-46-5
Formula:	C ₁₉ H ₂₆ O ₃
Molecular Weight:	302.4
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	18-Nor-4,15-dihydroxyabieta-8,11,13-trien-7-one shows moderate cytotoxicity against a human lung carcinoma cell line.
Targets(IC ₅₀)	Others: None
In vitro	METHODS AND RESULTS: Three new diterpenoids, namely 7 α -hydroxyabieta-8,11,13,15-tetraen-18-oic acid, 7 β ,15,18-trihydroxyabieta-8,11,13-triene, 13,15-dihydroxypodocarpa-8,11,13-triene, and 12 other known compounds were isolated from buds of <i>Pinus banksiana</i> Lamb. All these compounds, except for 7-oxodehydroabietinol, were isolated for the first time from this plant. Their structures were elucidated by detailed spectroscopic studies and comparison with published data. All isolated compounds were tested for cytotoxic and antibacterial activities. CONCLUSIONS: Overall, two compounds, 7-oxodehydroabietinol and 18-Nor-4,15-dihydroxyabieta-8,11,13-trien-7-one, showed moderate cytotoxicity against a human lung carcinoma cell line.

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.307 mL	16.534 mL	33.069 mL
5 mM	0.661 mL	3.307 mL	6.614 mL
10 mM	0.331 mL	1.653 mL	3.307 mL
50 mM	0.066 mL	0.331 mL	0.661 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Diterpenoids from the buds of *Pinus banksiana* Lamb. *Molecules*. 2012 Aug 13;17(8):9716-27.

Inhibitors · Natural Compounds · Compound Libraries

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