

Abiesadine N

Chemical Properties

CAS No.:	1159913-80-0
Formula:	C ₂₁ H ₃₀ O ₃
Molecular Weight:	330.5
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Targets(IC ₅₀)	Others: None
In vitro	<p>METHODS AND RESULTS: Twenty-five new (abiesadines A-Y, 1-25, Abiesadine N) and 29 known (26-54) diterpenes were isolated from the aerial parts of <i>Abies georgei</i>. Abiesadine A (1) is a novel 8,14-seco-abietane, while abiesadine B (2) is a novel 9,10-seco-abietane. The structures of the new compounds were established on the basis of spectroscopic data analysis. CONCLUSIONS: Manool (52) showed the strongest effect against LPS-induced NO production in RAW264.7 macrophages with the IC₅₀ value of 11.0 µg/mL. In another anti-inflammatory assay against TNFα-triggered NF-κB activity, (12R,13R)-8,12-epoxy-14-labden-13-ol (54) exhibited the strongest effect (IC₅₀ = 8.7 µg/mL). For antitumor assays, pomiferin A (26) and 8,11,13-abietatriene-7α,18-diol (29) both showed the most significant activity against LOVO cells (IC₅₀ = 9.2 µg/mL). While 7-oxocallitric acid (46) exhibited significant cytotoxicity against QGY-7703 tumor cells (IC₅₀ = 10.2 µg/mL).</p>

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	3.026 mL	15.129 mL	30.257 mL
5 mM	0.605 mL	3.026 mL	6.051 mL
10 mM	0.303 mL	1.513 mL	3.026 mL
50 mM	0.061 mL	0.303 mL	0.605 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. Isolation, structure, and bioactivities of abiesadines A-Y, 25 new diterpenes from *Abies georgei* Orr. Bioorganic & medicinal chemistry, 2010, 18(2):744-754.

Inhibitors · Natural Compounds · Compound Libraries

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