

Taraxerol

Chemical Properties

CAS No. : 127-22-0

Formula: C₃₀H₅₀O

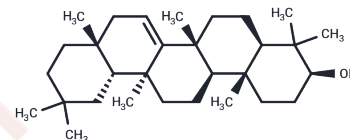
Molecular Weight: 426.72

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	Taraxerol (Alnulin) is an anti-inflammatory and anticancer compound derived from dandelion. Taraxerol reduces acute inflammation and induces apoptosis by inhibiting the NF-κB signaling pathway.
Targets (IC ₅₀)	Apoptosis, NF-κB
In vitro	Taraxerol (0-100 μM; 24 or 48 hours) significantly reduced cell viability to 95% (20 μM), 89.8% (40 μM), 82.6% (60 μM), 72.9% (80 μM), and 63.6% (100 μM). The cell viability of this compound in HeLa cells at 20 μM and 100 μM concentrations within 48 hours was 90.7% and 53.6%, respectively. [1] Taraxerol (80 μM; 24 or 48 hours) induces apoptosis and cell death in HeLa cells in a dose-dependent manner. Annexin V/PI double staining method showed that compared to the control group's apoptotic cell count of 6.5% (early stage) and 0.5% (late stage), Taraxerol significantly induced apoptosis to 24.2% (early stage) and 16.2% (late stage). [1]
In vivo	Taraxerol (5 and 10 mg/kg; i.p.) reduces carrageenan-induced paw edema. The effect of 5 mg/kg Taraxerol was significant (p < 0.05) only after 4 hours of carrageenan treatment. [2]

Solubility Information

Solubility	DMSO: < 1 mg/mL (insoluble or slightly soluble) THF: 5 mg/mL (11.72 mM), Sonication is recommended. Methanol: < 1 mg/mL (insoluble or slightly soluble) Ethanol: < 1 mg/mL (insoluble or slightly soluble) H ₂ O: < 0.1 mg/ml (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3435 mL	11.7173 mL	23.4346 mL
5 mM	0.4687 mL	2.3435 mL	4.6869 mL
10 mM	0.2343 mL	1.1717 mL	2.3435 mL
50 mM	0.0469 mL	0.2343 mL	0.4687 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

Yaoi X, et al. Taraxerol Induces Cell Apoptosis through A Mitochondria-Mediated Pathway in HeLa Cells. *Cell J.* 2017 Oct;19(3):512-519.

Khanra R, et al. Taraxerol, a pentacyclic triterpene from *Abroma augusta* leaf, attenuates acute inflammation via inhibition of NF- κ B signaling. *Biomed Pharmacother.* 2017 Apr;88:918-923.

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