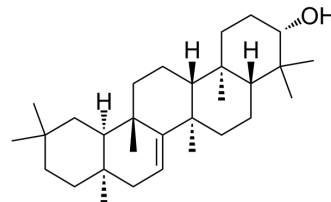


Taraxerol

Cat. No.:	HY-N2477
CAS No.:	127-22-0
Molecular Formula:	C ₃₀ H ₅₀ O
Molecular Weight:	426.72
Target:	Apoptosis; NF-κB
Pathway:	Apoptosis; NF-κB
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

THF : 10 mg/mL (23.43 mM; Need ultrasonic)
 DMSO : < 1 mg/mL (ultrasonic;warming;heat to 80°C) (insoluble or slightly soluble)
 H₂O : < 0.1 mg/mL (ultrasonic;warming;heat to 80°C) (insoluble)

Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		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	

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Taraxerol is isolated from *Taraxacum mongolicum*, and has anti-inflammatory and anti-cancer effects. Taraxerol attenuates acute inflammation through inhibition of NF-κB signaling pathway. Taraxerol induces cell apoptosis^{[1][2]}.

IC₅₀ & Target

IC₅₀: apoptosis^[1]

In Vitro

Taraxerol (0-100 μM; 24 or 48 hours) significantly reduces cell viability to 95% (20 μM), 89.8% (40 μM), 82.6% (60 μM), 72.9% (80 μM), and 63.6% (100 μM). And this compound has cell viability of 90.7% at a concentration of 20 μM and 53.6% at the 100 μM concentration at 48 hours in Hela cells^[1].

Taraxerol (80 μM; 24 or 48 hours) induces Hela cells apoptosis and cell death in a dose-dependent manner. Taraxerol can induce a significant apoptosis of cells by annexin V/ PI double staining, significant increase in both the early (24.2%) and late (16.2%) stages of apoptotic cells compared with the control group at the early (6.5%) and late (0.5%) stages^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

Taraxerol (5 and 10mg/kg; i.p.) attenuates carrageenan induced paw edema 2h onward. The effect of taraxerol at the dose of 5mg/kg is found to be significant (p<0.05) only after 4h of carrageenan treatment^[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

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

Caution: Product has not been fully validated for medical applications. For research use only.

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