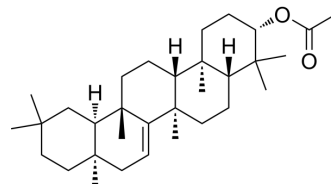


Taraxerol acetate

Cat. No.:	HY-N2599
CAS No.:	2189-80-2
Molecular Formula:	C ₃₂ H ₅₂ O ₂
Molecular Weight:	468.75
Target:	COX; Apoptosis
Pathway:	Immunology/Inflammation; Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Taraxerol acetate is a COX-1 and COX-2 inhibitor with IC ₅₀ values of 116.3 μM and 94.7 μM, respectively. Taraxerol acetate has the anticancer potential and induces cell apoptosis ^[1] .	
IC₅₀ & Target	COX-1 116.3 μM (IC ₅₀)	COX-2 94.7 μM (IC ₅₀)
In Vitro	<p>Taraxerol acetate (10-150 μM; 24 or 48 hours) induces a dose- and time-dependent cytotoxic effects in the U87 cells, exhibits IC₅₀ values of 34.2 and 28.4 μM, at 24 and 48 h, respectively^[2].</p> <p>Taraxerol acetate (10, 50 and 150 μM; 24 hours) induces cell apoptosis, the percentage of apoptotic cells increased from 7.3% in the control cells, to 16.1, 44.1 and in the 10, 50 and 150 μM taraxerol acetate-treated cells, respectively.</p> <p>Furthermore, taraxerol acetate treatment led to sub-G1 cell cycle arrest with a corresponding decrease in the number of S-phase cells^[2].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>	

REFERENCES

- [1]. Ubaid Ur Rehman A, et al. Molecular docking of taraxerol acetate as a new COX inhibitor. Journal of the Bangladesh Pharmacological Society
- [2]. Hong JF, et al. Anticancer activity of taraxerol acetate in human glioblastoma cells and a mouse xenograft model via induction of autophagy and apoptotic cell death, cell cycle arrest and inhibition of cell migration. Mol Med Rep. 2016 Jun;13(6):4541-8.

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

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