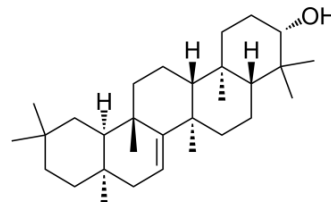


Taraxerol

| | |
|---------------------------|---|
| 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: | Please store the product under the recommended conditions in the Certificate of Analysis. |



BIOLOGICAL ACTIVITY

| | |
|-------------------------------------|--|
| Description | Taraxerol is isolated from <i>Abroma augusta</i> L, 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 | IC ₅₀ : apoptosis ^[1] |
| In Vitro | <p>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].</p> <p>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].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> |
| In Vivo | <p>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].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> |

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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