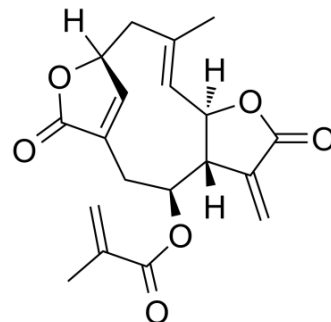


Deoxyelephantopin

Cat. No.:	HY-N2491
CAS No.:	29307-03-7
Molecular Formula:	C ₁₉ H ₂₀ O ₆
Molecular Weight:	344.36
Target:	NF-κB
Pathway:	NF-κB
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Deoxyelephantopin, a natural bioactive sesquiterpene lactone from <i>Elephantopus scaber</i> , has shown promising anticancer effects against a broad spectrum of cancers. Deoxyelephantopin inhibits NF-κB, MAPK, PI3K/Akt, and β-catenin signaling ^[1] .
IC₅₀ & Target	NF-κB
In Vitro	Deoxyelephantopin inhibits the cell growth of HCT 116 (colorectal), K562 (chronic myeloid leukemia), KB (oral), and T47D (breast) cancer cell lines with IC ₅₀ s of 7.46, 4.02, 3.35, 1.86 μg/mL, respectively ^[1] . Deoxyelephantopin increases the expression of p53, p-JNK, and p-p38 and decreases the expression of p-STAT3 and p-mTOR in cancer cells. Deoxyelephantopin downregulates MMP-2 and MMP-9, uPA, and uPAR mRNA levels in cancer cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Farha Arakkaveetil Kabeer, et al. Molecular Mechanisms of Anticancer Activity of Deoxyelephantopin in Cancer Cells. *Integr Med Res.* 2017 Jun;6(2):190-206.

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

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