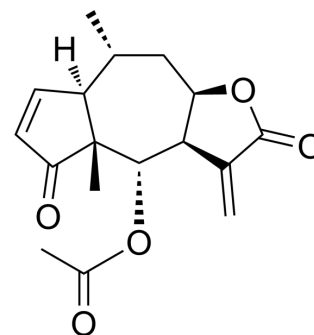


Helenalin acetate

Cat. No.:	HY-114519
CAS No.:	10180-86-6
Molecular Formula:	C ₁₇ H ₂₀ O ₅
Molecular Weight:	304.34
Target:	NF-κB; Histone Demethylase
Pathway:	NF-κB; Epigenetics
Storage:	-20°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



BIOLOGICAL ACTIVITY

Description	Helenalin acetate, a natural NF-κB inhibitor, is a potent C/EBPβ inhibitor. Helenalin acetate has anti-inflammatory and anticancer activities ^[1] .								
In Vitro	<p>Helenalin acetate (0.1-1 μM; for 7 days) inhibits the differentiation significantly in 3T3-L1 cells^[1].</p> <p>Helenalin acetate exerts anti-proliferative effects in acute myeloid leukemia cells but not in normal hematopoietic progenitor cells^[1].</p> <p>Helenalin acetate inhibits C/EBPβ by binding to the N-terminal part of C/EBPβ, thereby disrupting the cooperation of C/EBPβ with the co-activator p300. Helenalin acetate selectively inhibits only the full-length (liver-enriched activating protein* (LAP*)) isoform but not the slightly shorter (LAP) isoform^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Differentiation Assay^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>3T3-L1 cells</td> </tr> <tr> <td>Concentration:</td> <td>0.1 μM, 0.3 μM, 1 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>for 7 days</td> </tr> <tr> <td>Result:</td> <td>Inhibited the differentiation significantly.</td> </tr> </table>	Cell Line:	3T3-L1 cells	Concentration:	0.1 μM, 0.3 μM, 1 μM	Incubation Time:	for 7 days	Result:	Inhibited the differentiation significantly.
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CUSTOMER VALIDATION

- Cancer Lett. 2023 Nov 24:216497.

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REFERENCES

[1]. Jakobs A, et al. Helenalin Acetate, a Natural Sesquiterpene Lactone with Anti-inflammatory and Anti-cancer Activity, Disrupts the Cooperation of CCAAT Box/Enhancer-binding Protein β (C/EBPβ) and Co-activator p300. J Biol Chem. 2016 Dec 9;291(50):26098-26108.

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

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