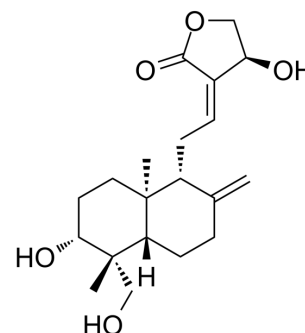


Andropanolide

Cat. No.:	HY-N1912
CAS No.:	869807-57-8
Molecular Formula:	C ₂₀ H ₃₀ O ₅
Molecular Weight:	350.45
Target:	NF-κB
Pathway:	NF-κB
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



BIOLOGICAL ACTIVITY

Description	<p>Andrographolide (Andro) is a small antagonist for NF-κB activation by covalent modifying reduced cysteine 62 of p50. Andrographolide is a bicyclic diterpenoid lactone mainly produced from the plant Andrographis (Andrographis paniculate). Andrographolide suppresses the activation of NF-κB in stimulated endothelial cells, which reduces the expression of cell adhesion molecule E-selectin and prevents E-selectin-mediated leukocyte adhesion, but has no effect on IκBα degradation, p50 and p65 nuclear translocation^[1].</p>								
In Vitro	<p>Andrographolide (15 μM; 12 hours) inhibited the luciferase activities induced by TNF-α in a time-dependent manner with an IC₅₀ of 10 μM^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Proliferation Assay^[1]</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Cell Line:</td> <td>293 cells</td> </tr> <tr> <td>Concentration:</td> <td>15 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>12 hours</td> </tr> <tr> <td>Result:</td> <td>Inhibited NF-κB activation induced by TNF-α.</td> </tr> </table>	Cell Line:	293 cells	Concentration:	15 μM	Incubation Time:	12 hours	Result:	Inhibited NF-κB activation induced by TNF-α.
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REFERENCES

[1]. Xia YF, et al. Andrographolide attenuates inflammation by inhibition of NF-kappa B activation through covalent modification of reduced cysteine 62 of p50. J Immunol. 2004 Sep 15;173(6):4207-17.

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

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