# Andropanolide

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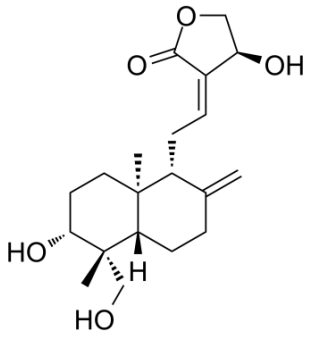
| **Cat. No.:** | HY-N1912 |
| **CAS No.:** | 869807-57-8 |
| **Molecular Formula:** | $C_{20}H_{30}O_5$ |
| **Molecular Weight:** | 350.45 |
| **Target:** | NF-κB |
| **Pathway:** | NF-κB |
| **Storage:** | 4°C, protect from light<br>* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light) |




## BIOLOGICAL ACTIVITY

**Description**

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].

**In Vitro**

Andrographolide (15 μM; 12 hours) inhibited the luciferase activities induced by TNF-α in a time-dependent manner with an $IC_{50}$ of 10 μM[1].

**Cell Proliferation Assay**[1]

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| Cell Line: | 293 cells |
| Concentration: | 15 μM |
| Incubation Time: | 12 hours |
| Result: | Inhibited NF-κB activation induced by TNF-α. |

## 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.



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