Data Sheet (Cat.No.TQ0073)

TargetMol
A DRUG SCREENING EXPERT

Andropanolide

Chemical Properties

CAS No.:	869807-57-8
Formula:	C20H30O5
Molecular Weight:	350.45
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	Andrographolide is a small antagonist for NF-κB activation by covalent modifying reduced cysteine 62 of p50. It is a natural product mainly produced from the plant Andrographis.
In vitro	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. Andrographolide (15 μM, 12 hours) inhibited the luciferase activities induced by TNF-α in a time-dependent manner (IC50: 10 μM).

Solubility Information

Solubility	DMSO: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.853 mL	14.267 mL	28.535 mL
5 mM	0.571 mL	2.853 mL	5.707 mL
10 mM	0.285 mL	1.427 mL	2.853 mL
50 mM	0.057 mL	0.285 mL	0.571 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

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.

Inhibitors · Natural Compounds · Compound Libraries

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