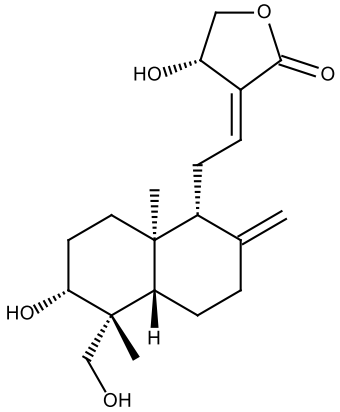
Catalog # 10-1173
Andrographolide
CAS# 5508-58-7
Lot # X103051



Major bioactive component of the medicinal plant *Andrographis paniculate*. Demonstrates anti-inflammatory anti-apoptotic, anti-viral and anti-proliferative effects *in vitro* and *in vivo*. Prevents hyperglycemia in rat diabetes model. Irreversible antagonist of NK-κB and AP-1 (IC_{50} = 15 µM)

1) Xia *et al*. (2004), *Andrographolide attenuates inflammation by inhibition of NF-kappa B activation through covalent modification of reduced cysteine 62 of p50;* J. Immunol., **173** 4207
2) Chen *et al*. (2004), *Andrographolide suppresses endothelial cell apoptosis via activation of phosphatidyl inositol-3-kinase/Akt pathway;* Biochem. Pharmacol., **67** 1337
3) Yu *et al*. (2003), *Antihyperglycemic effect of andrographolide in streptozotocin-induced diabetic rats;* Planta Med., **69** 1075

PHYSICAL DATA

Molecular Weight:	350.45
Molecular Formula:	$C_{20}H_{30}O_5$
Purity:	98%
	NMR: (Conforms)
Solubility:	DMSO (up to 25 mg/ml), Ethanol (up to 8 mg/ml).
Physical Description:	Off-white solid
Storage and Stability:	Store as supplied at -20°C for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

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