
Product Data Sheet

Product Name: Andropanolide

Cat. No.: GC35340

Chemical Properties

Cas. No. 869807-57-8

SMILES O=C1OC[C@@H](O)/C1=C/C[C@@H]2C(CC[C@]3([H])[C@](C)(CO)[C@H](O)CC[C@@]23C)=C

Formula	C ₂₀ H ₃₀ O ₅	M.Wt	350.45
---------	--	------	--------

Solubility	Soluble in DMSO	Storage	4°C, protect from light
------------	-----------------	---------	-------------------------

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

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].

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]. Cell Proliferation Assay[1] Cell Line: 293 cells

[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.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA
