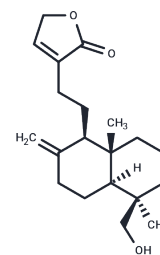


Andrograpanin

Chemical Properties

CAS No. :	82209-74-3
Formula:	C ₂₀ H ₃₀ O ₃
Molecular Weight:	318.45
Storage:	Keep away from direct sunlight, Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Andrograpanin (19-HYDROXY-8(17),13-LABDADIEN-16,15-OLIDE) is a bioactive compound from Andrographis paniculata. Andrograpanin has anti-inflammatory and anti-infectious properties.
Targets(IC50)	p38 MAPK
In vitro	Andrograpanin boosts the movement of leukocytes towards higher concentrations of the chemokine SDF-1 α in Jurkat, THP-1, and PBL cells[1], demonstrating its ability to enhance chemotaxis. Additionally, it exhibits anti-inflammatory effects by inhibiting the p38 MAPKs signaling pathways in macrophage cells stimulated with lipopolysaccharide [2].

Solubility Information

Solubility	DMSO: 55 mg/mL (172.71 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1402 mL	15.7011 mL	31.4021 mL
5 mM	0.628 mL	3.1402 mL	6.2804 mL
10 mM	0.314 mL	1.5701 mL	3.1402 mL
50 mM	0.0628 mL	0.314 mL	0.628 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Liu J , Wang Z T , Ge B X . Andrograpanin, isolated from *Andrographis paniculata*, exhibits anti-inflammatory property in lipopolysaccharide-induced macrophage cells through down-regulating the p38 MAPKs signaling pathways[J]. *International Immunopharmacology*, 2008, 8(7):951-958.

Andrograpanin, a compound isolated from anti-inflammatory traditional Chinese medicine *Andrographis paniculata*, enhances chemokine SDF-1 α -induced leukocytes chemotaxis[J]. *Journal of Cellular Biochemistry*, 2005, 95(5).

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