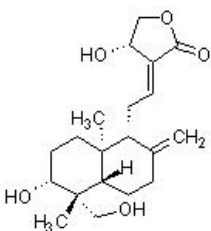


Product datasheet

Andrographolide, anti-inflammatory agent ab120636

[2 Images](#)

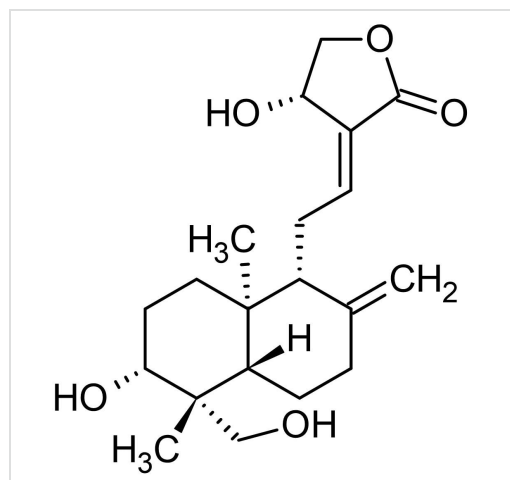
Overview

Product name	Andrographolide, anti-inflammatory agent
Description	Potent anti-inflammatory agent
Biological description	Bioactive component of <i>Andrographis paniculata</i> . Potent anti-inflammatory, immunosuppressant, antithrombotic and antiviral agent. Additionally displays antioxidative stress, neuroprotective and antinociceptive activities.
Purity	> 99%
CAS Number	5508-58-7
Chemical structure	

Properties

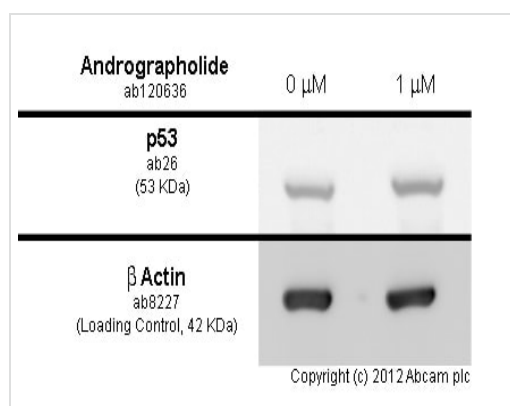
Chemical name	(3E,4S)-3-[2-[(1R,4aS,5R,6R,8aS)-Decahydro-6-hydroxy-5-(hydroxymethyl)-5,8a-dimethyl-2-methylene-1-naphthalenyl]ethylidene]dihydro-4-hydroxy-2(3H)-furanone
Molecular weight	350.45
Molecular formula	C ₂₀ H ₃₀ O ₅
Storage instructions	Store at +4°C. The product can be stored for up to 12 months.
Solubility overview	Soluble in DMSO to 100 mM and in ethanol to 10 mM
Handling	<p>Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.</p> <p>Refer to SDS for further information</p> <p>Need more advice on solubility, usage and handling? Please visit our frequently asked questions (FAQ) page for more details.</p>

Images



Chemical Structure - Andrographolide, anti-inflammatory agent (ab120636)

2D chemical structure image of ab120636, Andrographolide, anti-inflammatory agent



Functional Studies - Andrographolide, anti-inflammatory agent (ab120636)

MALME-3M cells were incubated at 37°C for 24h with vehicle control (0 μM) and 1 μM andrographolide (ab120636). Increased expression of p53 in MALME-3M cells correlates with an increase in andrographolide concentration, as described in literature.

Whole cell lysates were prepared with RIPA buffer (containing protease inhibitors and sodium orthovanadate), 10 μg of each were loaded on the gel and the WB was run under reducing conditions. After transfer the membrane was blocked for an hour using 5% BSA before being incubated with [ab26](#) at 5 μg/ml and [ab8227](#) at 1 μg/ml overnight at 4°C. Antibody binding was detected using an anti-mouse antibody conjugated to HRP ([ab97040](#)) at 1/10000 dilution and visualised using ECL development solution.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES, NOT FOR USE IN HUMANS"

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