Product Name: Andrographolide
Catalog No.: 4626 Batch No.: 1
CAS Number: 5508-58-7 EC Number: 226-852-5
IUPAC Name: \((3E,4S):3-\{2-([1R,4aS,5R,6R,8aS]-Decahydro-6-hydroxy-5-(hydroxymethyl)-5,8a-dimethyl-2-methylene-1-naphthalenyl)ethylidene\}dihydro-4-hydroxy-2(3H)-furanone\)

1. PHYSICAL AND CHEMICAL PROPERTIES

- **Batch Molecular Formula:** \(C_{20}H_{30}O_5\)
- **Batch Molecular Weight:** 350.45
- **Physical Appearance:** White solid
- **Solubility:** DMSO to 100 mM, ethanol to 10 mM
- **Storage:** Store at -20°C
- **Batch Molecular Structure:**

![Molecular Structure](image)

2. ANALYTICAL DATA

- **HPLC:** Shows 99.8% purity
- **\(^1\)H NMR:** Consistent with structure
- **Mass Spectrum:** Consistent with structure
- **Optical Rotation:** \([\alpha]_D = -98.3\) (Concentration = 1, Solvent = Acetic acid)
- **Microanalysis:**
  - Carbon: Theoretical 68.54 Found 68.4
  - Hydrogen: Theoretical 8.63 Found 8.67
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Description:
Inhibitor of NF-κB signaling; also attenuates concanavaline-induced IFNγ production in murine T cells (IC50 = 1.7 μM). Blocks androgen receptor (AR) expression in AR-expressing C4-2 cells. Activates Nrf2 in BEAS-2B cells in response to cigarette smoke extract.

Physical and Chemical Properties:
Batch Molecular Formula: C30H30O5
Batch Molecular Weight: 350.45
Physical Appearance: White solid
Minimum Purity: >99%

Storage: Store at -20°C

Solubility & Usage Info:
DMSO to 100 mM
ethanol to 10 mM

Stability and Solubility Advice:
Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).
Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:
SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.
SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References: