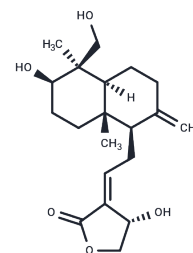


## Andrographolide

## Chemical Properties

|                   |                                                          |
|-------------------|----------------------------------------------------------|
| CAS No. :         | 5508-58-7                                                |
| Formula:          | C <sub>20</sub> H <sub>30</sub> O <sub>5</sub>           |
| Molecular Weight: | 350.45                                                   |
| Appearance:       | no data available                                        |
| Storage:          | Powder: -20°C for 3 years   In solvent: -80°C for 1 year |



## Biological Description

|               |                                                                                                                                                                                 |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description   | Andrographolide (Andrographis)(Andrographis), an irreversible antagonist of NF-κB, has anti-inflammatory and anti-platelet aggregation activities and potential antineoplastic. |
| Targets(IC50) | NF-κB, Autophagy, Influenza Virus, SARS-CoV                                                                                                                                     |

## Solubility Information

|            |                                                                                                                                                                                                                                                       |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Solubility | Ethanol: 3.5 mg/mL (9.99 mM), Sonication is recommended.<br>DMSO: 50 mg/mL (142.67 mM), Sonication is recommended.<br>H <sub>2</sub> O: < 1 mg/mL (insoluble or slightly soluble),<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Preparing Stock Solutions

|       | 1mg       | 5mg        | 10mg       |
|-------|-----------|------------|------------|
| 1 mM  | 2.8535 mL | 14.2674 mL | 28.5347 mL |
| 5 mM  | 0.5707 mL | 2.8535 mL  | 5.7069 mL  |
| 10 mM | 0.2853 mL | 1.4267 mL  | 2.8535 mL  |
| 50 mM | 0.0571 mL | 0.2853 mL  | 0.5707 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.

### Reference

Li GF, Qin YH, Du PQ. Life Sci. 2015 Sep 1;136:67-72.

Yang K, Wu K, Feng J, et al. Study on the Antitumor Effect and Glycolysis of Andrographolide in Anaplastic Thyroid Carcinoma. Evidence-based Complementary and Alternative Medicine. 2021

Jiang H, Chen J, Li X, et al. Systematic Identification of Chemical Components in Fufang Shuanghua Oral Liquid and Screening of Potential Active Components Against SARS-CoV-2 n Protease. Journal of Pharmaceutical and Biomedical Analysis. 2022; 115118.

Jiang H, Chen J, Li X, et al. Systematic identification of chemical components in Fufang Shuanghua oral liquid and screening of potential active components against SARS-CoV-2 protease. Journal of Pharmaceutical and Biomedical Analysis. 2023, 223: 115118.

Zheng M, Zhai Y, Yu Y, et al. TNF compromises intestinal bile-acid tolerance dictating colitis progression and limited infliximab response. Cell Metabolism. 2024

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

**This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use**

Tel: 781-999-4286

E\_mail: info@targetmol.com

Address: 36 Washington Street, Wellesley Hills, MA 02481