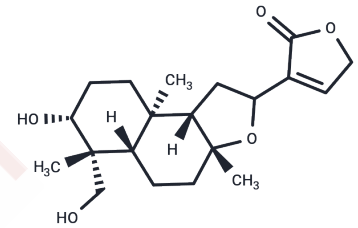


## Isoandrographolide

## Chemical Properties

CAS No. :	4176-96-9
Formula:	C <sub>20</sub> H <sub>30</sub> O <sub>5</sub>
Molecular Weight:	350.45
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Isoandrographolide is a minor diterpene lactone compound and also an in vivo metabolite with multiple pharmacological activities. It alleviates pulmonary inflammation and tissue damage in silicosis models by inhibiting the activation of the NLRP3 inflammasome. It significantly inhibits the release of key inflammatory mediators such as lipopolysaccharide-induced nitric oxide (NO), prostaglandin E <sub>2</sub> (PGE <sub>2</sub> ), and interleukin-1 $\beta$ (IL-1 $\beta$ ) in various inflammatory cell models while also demonstrating potential tumor suppression properties.
Targets(IC50)	Others,NOD-like Receptor (NLR)

## 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.

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

- T Matsuda, et al. Cell differentiation-inducing diterpenes from *Andrographis paniculata* Nees. *Chem Pharm Bull* (Tokyo). 1994 Jun;42(6):1216-25.
- Zhe Song, et al. Isoandrographolide inhibits NLRP3 inflammasome activation and attenuates silicosis in mice. *Int Immunopharmacol*. 2022 Apr;105:108539.

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