

## Cynaropicrin

## Chemical Properties

CAS No. : 35730-78-0

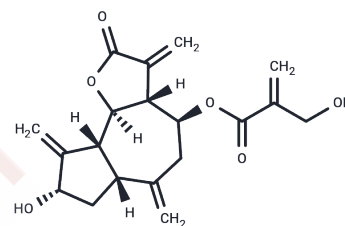
Formula: C<sub>19</sub>H<sub>22</sub>O<sub>6</sub>

Molecular Weight: 346.37

Store at low temperature, Store under nitrogen, Keep away from moisture

Storage: Pure form: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Cynaropicrin, a sesquiterpene lactone found in artichoke ( <i>Cynara scolymus</i> ), has anti-hepatitis C and trypanosome activity and inhibits NF- $\kappa$ B activation. Cynaropicrin disrupts microtubulin- and c-Myc-related signaling and induces parthanatos-type cell death in multiple myeloma.
Targets(IC50)	MMP,HCV Protease,NF- $\kappa$ B, Microtubule Associated, TNF
In vitro	Cynaropicrin effectively reduces the accumulation of NO released by RAW264.7 cells stimulated with lipopolysaccharide and interferon- $\gamma$ in a dose-dependent manner[1].

## Solubility Information

Solubility	DMSO: 30 mg/mL (86.61 mM), Sonication is recommended. ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (5.77 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	2.8871 mL	14.4354 mL	28.8709 mL
5 mM	0.5774 mL	2.8871 mL	5.7742 mL
10 mM	0.2887 mL	1.4435 mL	2.8871 mL
50 mM	0.0577 mL	0.2887 mL	0.5774 mL

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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

Cho JY, et al. In vitro anti-inflammatory effects of cynaropicrin, a sesquiterpene lactone, from *Saussurea lappa*. *Eur J Pharmacol*. 2000 Jun 23;398(3):399-407.

Masutani T, et al. Cynaropicrin is dual regulator for both degradation factors and synthesis factors in the cartilage metabolism. *Life Sci*. 2016 Aug 1;158:70-7.

da Silva CF, et al. Activities of psilostachyin A and cynaropicrin against *Trypanosoma cruzi* in vitro and in vivo. *Antimicrob Agents Chemother*. 2013 Nov;57(11):5307-14.

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