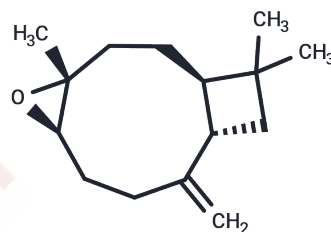


## Caryophyllene oxide

## Chemical Properties

CAS No. :	1139-30-6
Formula:	C <sub>15</sub> H <sub>24</sub> O
Molecular Weight:	220.35
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	Caryophyllene oxide is isolated from Aegle marmelos, with anti-inflammatory activity.
Targets(IC50)	Apoptosis,Endogenous Metabolite,Antibacterial,Parasite,Antifungal

## Solubility Information

Solubility	DMSO: 62.5 mg/mL (283.64 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 (9.08 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

	1mg	5mg	10mg
1 mM	4.5382 mL	22.6912 mL	45.3823 mL
5 mM	0.9076 mL	4.5382 mL	9.0765 mL
10 mM	0.4538 mL	2.2691 mL	4.5382 mL
50 mM	0.0908 mL	0.4538 mL	0.9076 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

Sain S, et al. Antiinflamm Antiallergy Agents Med Chem. 2014 Mar;13(1):45-55.

Liu Q, Li X, Li Y, et al. A novel network pharmacology strategy to decode mechanism of Wuling Powder in treating liver cirrhosis. Chinese Medicine. 2024, 19(1): 36.

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