

## Pulegone

## Chemical Properties

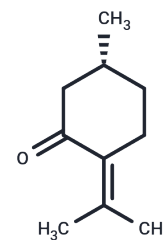
CAS No. : 89-82-7

Formula: C<sub>10</sub>H<sub>16</sub>O

Molecular Weight: 152.23

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	1. Pulegone ((+)-Pulegone) has cytotoxicity followed by regenerative cell proliferation is the MOA for Pulegone-induced urothelial tumors in female rats. 2. Pulegone induces a verapamil-sensitive psychostimulant effect that appears to independent on the opening of L-type calcium channels. 3. Pulegone has negative reinforcing properties and seems to possess anxiolytic-like actions unrelated to the benzodiazepine site of the $\gamma$ -aminobutyric acid type A (GABAA) receptor.
Targets(IC50)	Calcium Channel,NF- $\kappa$ B,Nrf2,Endogenous Metabolite,Antibacterial,NO Synthase, Antifungal,COX,JNK,p38 MAPK,PERK,ROS,TRP/TRPV Channel

## Solubility Information

Solubility	DMSO: 200 mg/mL (1313.8 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 10 mg/mL (65.69 mM),Suspension. 10% DMSO+40% PEG300+5% Tween-80+45% Saline: 2.5 mg/mL (16.42 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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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	6.569 mL	32.845 mL	65.6901 mL
5 mM	1.3138 mL	6.569 mL	13.138 mL
10 mM	0.6569 mL	3.2845 mL	6.569 mL
50 mM	0.1314 mL	0.6569 mL	1.3138 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

Silveira N S D , Oliveira-Silva G L D , Lamanes B D F , et al. The Aversive, Anxiolytic-Like, and Verapamil-Sensitive Psychostimulant Effects of Pulegone[J]. Biological and Pharmaceutical Bulletin, 2014, 37(5):771-778.

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