

$\beta$ -Ocimene

## Chemical Properties

CAS No. : 13877-91-3

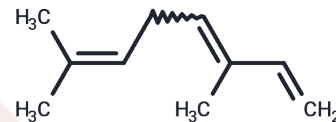
Formula: C<sub>10</sub>H<sub>16</sub>

Molecular Weight: 136.23

Store under nitrogen

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	$\beta$ -Ocimene, a volatile substance released in large quantities from the leaves and flowers of many plant species, is a multifaceted attractant for a wide range of pollinators, possesses antileishmanial protozoan activity, and inhibits the growth of <i>M. persicae</i> .
Targets(IC50)	Others

## Solubility Information

Solubility	DMSO: 80 mg/mL (587.24 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: 3.3 mg/mL (24.22 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	7.3405 mL	36.7026 mL	73.4053 mL
5 mM	1.4681 mL	7.3405 mL	14.6811 mL
10 mM	0.7341 mL	3.6703 mL	7.3405 mL
50 mM	0.1468 mL	0.7341 mL	1.4681 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

Farré-Armengol G, et al.  $\beta$ -Ocimene, a Key Floral and Foliar Volatile Involved in Multiple Interactions between Plants and Other Organisms. *Molecules*. 2017 Jul 13;22(7):1148.

Sousa JMS, et al. Cytotoxic and Antileishmanial Effects of the Monoterpene  $\beta$ -Ocimene. *Pharmaceuticals (Basel)*. 2023 Jan 26;16(2):183.

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