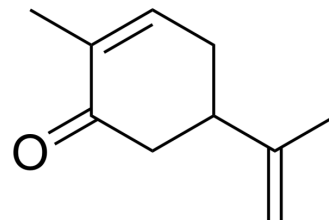


## Carvone

Cat. No.:	HY-108964
CAS No.:	99-49-0
Molecular Formula:	C <sub>10</sub> H <sub>14</sub> O
Molecular Weight:	150.22
Target:	Bacterial
Pathway:	Anti-infection
Storage:	4°C, stored under nitrogen
	* In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (665.69 mM; Need ultrasonic)				
	Preparing Stock Solutions	Mass	1 mg	5 mg	10 mg
		Solvent			
		Concentration			
		1 mM	6.6569 mL	33.2845 mL	66.5690 mL
		5 mM	1.3314 mL	6.6569 mL	13.3138 mL
		10 mM	0.6657 mL	3.3285 mL	6.6569 mL
	Please refer to the solubility information to select the appropriate solvent.				
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (16.64 mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (16.64 mM); Clear solution 3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (16.64 mM); Clear solution				

### BIOLOGICAL ACTIVITY

Description	Carvone is a ketone monoterpene found mostly in the essential oils from plants of the genus <i>Mentha</i> . Carvone is widely used in the pharmaceutical industry, cosmetics and agriculture. Carvone has such effects as antimicrobial, antioxidant, anti-inflammatory, antispasmodic, antinociceptive, anticonvulsant <sup>[1]</sup> .
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### REFERENCES

[1]. Lícia T S Pina, et al. Carvone and its pharmacological activities: A systematic review. *Phytochemistry*. 2022 Apr;196:113080.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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