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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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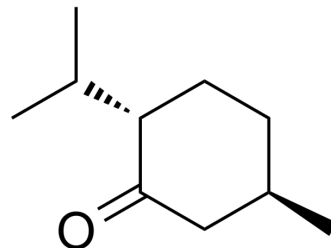
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(-)-Menthone

Cat. No.:	HY-N7916
CAS No.:	14073-97-3
Molecular Formula:	C ₁₀ H ₁₈ O
Molecular Weight:	154.25
Target:	Others
Pathway:	Others
Storage:	Pure form -20°C 3 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (648.30 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM		6.4830 mL	32.4149 mL	64.8298 mL
		5 mM		1.2966 mL	6.4830 mL	12.9660 mL
		10 mM		0.6483 mL	3.2415 mL	6.4830 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 (16.21 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (16.21 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (16.21 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	(-)-Menthone is a monoterpene component of the essential oil of maturing peppermint. (+)-Neomenthyl-β-d-glucoside is a metabolite of (-)-Menthone ^[1] . Mortality of two biological forms of <i>Anopheles stephensi</i> (larvae) exposed to about 45 ppm (-)-Menthone is 27.67% and 94.92%. ^[2]
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REFERENCES

[1]. Dehghankar M, et al. Bioactivities of rose-scented geranium nanoemulsions against the larvae of *Anopheles stephensi* and their gut bacteria. PLoS One. 2021

Feb;16(2):e0246470.

[2]. R Croteau, et al. Metabolism of Monoterpenes: Demonstration of (+)-Neomenthyl-beta-d-Glucoside as a Major Metabolite of (-)-Menthone in Peppermint (*Mentha Piperita*). *Plant Physiol.* 1979 Aug;64(2):169-75.

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

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