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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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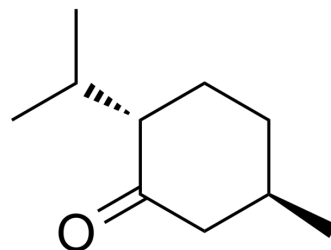
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(-)-Menthone

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:	Powder	-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

- 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
- 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
- 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 *Anopheles stephensi* (larvae) exposed to about 45 ppm (-)-Menthone is 27.67% and 94.92%.^[2]

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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