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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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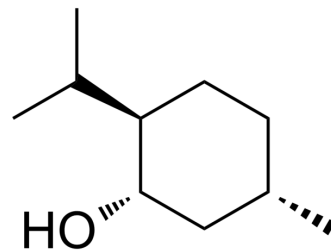
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(+)-Menthol

Cat. No.:	HY-W017277		
CAS No.:	15356-60-2		
Molecular Formula:	C ₁₀ H ₂₀ O		
Molecular Weight:	156.27		
Target:	Others		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (639.92 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	6.3992 mL	31.9959 mL	63.9918 mL
		5 mM	1.2798 mL	6.3992 mL	12.7984 mL
10 mM		0.6399 mL	3.1996 mL	6.3992 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (16.00 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (16.00 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (16.00 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	(+)-Menthol (D-Menthol) is one of the optical isomers of Menthol. (+)-Menthol can reduce the electrically evoked contractions of rat phrenic hemidiaphragm in vitro. Local anaesthetic activity. (+)-Menthol can also inhibit the growth of <i>Microcystis aeruginosa</i> cells ^{[1][2][3]} .
In Vitro	(+)-Menthol (0.0001-0.1 µg/ml) reduces the electrically evoked contractions of rat phrenic hemidiaphragm dose-dependently in vitro, up to complete abolishment of contractions. ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Galeotti N, et al. Local anaesthetic activity of (+)- and (-)-menthol. *Planta Med.* 2001 Mar;67(2):174-6.
- [2]. Galeotti N, et al. Menthol: a natural analgesic compound. *Neurosci Lett.* 2002 Apr 12;322(3):145-8.
- [3]. Hu X, et al. Effects of d-menthol stress on the growth of and microcystin release by the freshwater cyanobacterium *Microcystis aeruginosa* FACHB-905. *Chemosphere.* 2014 Oct;113:30-5.
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Caution: Product has not been fully validated for medical applications. For research use only.

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