(+)-Menthol

Cat. No.:	HY-W01727	7	
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

®

MedChemExpress

SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (6	MSO : 100 mg/mL (639.92 mM; Need ultrasonic)					
Preparing Stock Solutions	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg		
		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	1. 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						
	2. 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						
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (16.00 mM); Clear solution						

BIOLOGICALIACIA				
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 Microcystis aeruginosa 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.			

HO^{wv}

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.

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

 Tel: 609-228-6898
 Fax: 609-228-5909
 E-mail: tech@MedChemExpress.com

 Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA