

DL-Menthol

Chemical Properties

CAS No. :	89-78-1
Formula:	C ₁₀ H ₂₀ O
Molecular Weight:	156.27
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year

Biological Description

Description	DL-Menthol ((±)-Menthol) is a racemic mixture of the monoterpene alcohols (-)-menthol and (+)-menthol, which have been found in Cannabis. (-)-Menthol is more common than (+)-menthol in nature and exhibits analgesic, antibacterial, and anticancer properties, as well as inhibits cholinesterase. ² (+)-Menthol inhibits the growth of <i>F. verticillioides</i> (MIC: 1.5 mM) but, unlike (-)-menthol, does not exhibit analgesic, antibacterial, anticancer, or cholinesterase inhibitory activities.
Targets(IC50)	GABA Receptor,Cholinesterase (ChE)

Solubility Information

Solubility	Ethanol: Soluble, H ₂ O: Insoluble, DMSO: 60 mg/mL (383.95 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
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
50 mM	0.128 mL	0.6399 mL	1.2798 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Kamatou GP, et al. Menthol: a simple monoterpene with remarkable biological properties. *Phytochemistry*. 2013 Dec;96:15-25.

José S. Dambolena, et al. Effects of menthol stereoisomers on the growth, sporulation and fumonisin B1 production of *Fusarium verticillioides* [J]. *Food Chemistry*, 2010, 123(1):165-170.

Wang DL, et al. *J Agric Food Chem*. 2002 Jan 16;50(2):262-5.

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