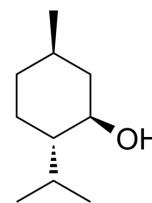


## DL-Menthol

<b>Cat. No.:</b>	HY-Y1683		
<b>CAS No.:</b>	89-78-1		
<b>Molecular Formula:</b>	C <sub>10</sub> H <sub>20</sub> O		
<b>Molecular Weight:</b>	156.27		
<b>Target:</b>	GABA Receptor		
<b>Pathway:</b>	Membrane Transporter/Ion Channel; Neuronal Signaling		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



Relative stereochemistry

### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 100 mg/mL (639.92 mM; Need ultrasonic)  
 H<sub>2</sub>O : 1 mg/mL (6.40 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		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

- 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

DL-Menthol is a relative configuration of (-)-Menthol. DL-Menthol relates to the activation of GABAA receptor<sup>[1]</sup>.

### REFERENCES

- [1]. Menthol Induces Surgical Anesthesia and Rapid Movement in Fishes. The Open Neuroscience. 2014 Feb; 8(1):1-8.

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

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