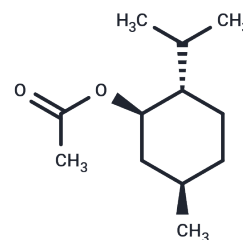


## (-)-Menthyl acetate

## Chemical Properties

CAS No. :	2623-23-6
Formula:	C <sub>12</sub> H <sub>22</sub> O <sub>2</sub>
Molecular Weight:	198.3
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	(-)-Menthyl acetate exhibits broad-spectrum antibacterial activity, with minimum inhibitory concentrations (MIC) ranging from 0.12 to 8.0 µL/mL against pathogenic fungi such as <i>Candida albicans</i> and <i>Aspergillus niger</i> . It also inhibits fungal biofilm formation. (-)-Menthyl acetate enhances the skin permeability of 5-aminoacetopropionic acid, making it a potential tool for studying transdermal drug absorption.
Targets(IC50)	Others

## Solubility Information

Solubility	DMSO: 30 mg/mL (151.29 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (10.09 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	5.0429 mL	25.2143 mL	50.4286 mL
5 mM	1.0086 mL	5.0429 mL	10.0857 mL
10 mM	0.5043 mL	2.5214 mL	5.0429 mL
50 mM	0.1009 mL	0.5043 mL	1.0086 mL

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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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Tokuoka Y , Suzuki M , Ohsawa Y , et al. Enhancement in Skin Permeation of 5-Aminolevulinic Acid Using l-Menthol and its Derivatives[J]. Drug Development Communications, 2008, 34(6):595-601.

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