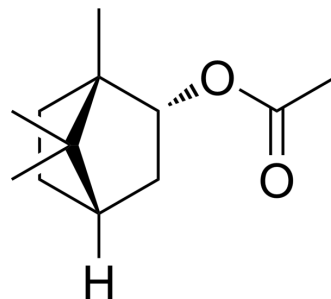


(-)-Bornyl acetate

Cat. No.:	HY-N0756A		
CAS No.:	5655-61-8		
Molecular Formula:	C ₁₂ H ₂₀ O ₂		
Molecular Weight:	196.29		
Target:	Fungal		
Pathway:	Anti-infection		
Storage:	Pure form	-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 (509.45 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	5.0945 mL	25.4725 mL	50.9450 mL
		5 mM	1.0189 mL	5.0945 mL	10.1890 mL
10 mM		0.5095 mL	2.5473 mL	5.0945 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 (12.74 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (12.74 mM); Suspended solution; Need ultrasonic Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (12.74 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	(-)-Bornyl acetate (L-(-)-Bornyl acetate), isolated from hyssop oil, is a less active enantiomer of (+)-Bornyl acetate. (-)-Bornyl acetate possesses antifungal activity ^[1] .
In Vitro	<p>The wavy roots from seedlings exposed to (-)-bornyl acetate are significantly longer than those from seedlings exposed to ()-bornyl acetate^[1].</p> <p>(-)-Bornyl acetate (L-bornyl acetate), when applied individually to barley seedlings, reduced powdery mildew infection compared with controls not containing ether^[2].</p>

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Jun-Ichiro Horiuchi, et al. Exposing Arabidopsis seedlings to borneol and bornyl acetate affects root growth: Specificity due to the chemical and optical structures of the compounds. *Journal of Plant Interactions* Volume 2, 2007 - Issue 2.
- [2]. M. P. LETESSIER ETESSIE, et al. Antifungal Activity of the Essential Oil of Hyssop (*Hyssopus officinalis*). *J. Phytopathology* 149, 673±678 (2001).
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Caution: Product has not been fully validated for medical applications. For research use only.

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