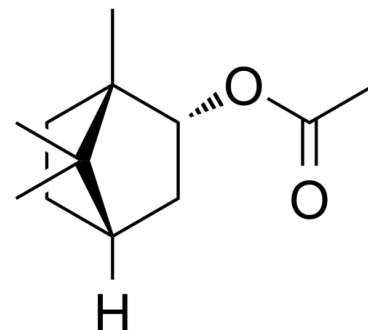


Data Sheet

Product Name:	(-)-Bornyl acetate
Cat. No.:	CS-0017052
CAS No.:	5655-61-8
Molecular Formula:	C ₁₂ H ₂₀ O ₂
Molecular Weight:	196.29
Target:	Fungal
Pathway:	Anti-infection
Solubility:	DMSO : 100 mg/mL (509.45 mM; Need ultrasonic)



BIOLOGICAL ACTIVITY:

(-)-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:** The wavy roots from seedlings exposed to (-)-bornyl acetate are significantly longer than those from seedlings exposed to (-)-bornyl acetate^[1].

(-)-Bornyl acetate (L-bornyl acetate), when applied individually to barley seedlings, reduced powdery mildew infection compared with controls not containing ether^[2].

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).

CAIndexNames:

Bicyclo[2.2.1]heptan-2-ol, 1,7,7-trimethyl-, 2-acetate, (1S,2R,4S)-

SMILES:

CC1(C)[C@@]2(C)[C@H](OC(C)=O)C[C@]1([H])CC2

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

Tel: 610-426-3128

Fax: 888-484-5008

E-mail: sales@ChemScene.com

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