

Product Data Sheet

Product Name: (Z)-9-Hexadecenol

Cat. No.: GC46356

Chemical Properties

Cas. No. 10378-01-5

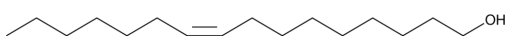
SMILES OCCCCCCCC/C=C\CCCCC

Formula C₁₆H₃₂O M.Wt 240.4

Solubility DMF: 30 mg/ml, DMSO: 30 mg/ml, Ethanol: 30 mg/ml, Ethanol: PBS (pH 7.2) (1:2): 0.33 mg/ml
Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure 

Background

(Z)-9-Hexadecenol is an unsaturated long chain fatty alcohol that has been found in pheromone gland extracts from *H. assulta* and has diverse biological activities.^{1,2,3} It is virucidal against herpes simplex virus 2 (HSV-2) when used at a concentration of 10 mM.² (Z)-9-Hexadecenol is active against the bacterium *S. mutans* (MIC = 1.56 µg/ml).³ It decreases flight, upwind, close, landing, and copulatory behavior induced by an *H. assulta* pheromone blend in male *H. assulta* moths in a wind tunnel assay.¹

1. Xu, M., Guo, H., Hou, C., et al. Olfactory perception and behavioral effects of sex pheromone gland components in *Helicoverpa armigera* and *Helicoverpa assulta* Sci. Rep. 622998 (2016) 2. Hilmarsson, H., Kristmundsdóttir, T., and Thormar, H. Virucidal activities of medium- and long-chain fatty alcohols, fatty acids and monoglycerides against herpes simplex virus types 1 and 2: Comparison at different pH levels APMIS 113(1) 58-65 (2005) 3. Hattori, M., Miyachi, K., Hada, S., et al. Effects of long-chain fatty acids and fatty alcohols on the growth of *Streptococcus mutans* Chem. Pharm. Bull.

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

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