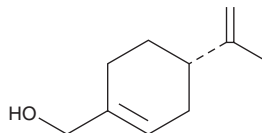


PRODUCT INFORMATION

(-)-Perillyl Alcohol

Item No. 21860

CAS Registry No.: 18457-55-1
Formal Name: 4S-(1-methylethenyl)-1-cyclohexene-1-methanol
Synonyms: (L)-Perillyl Alcohol, (S)-Perillic Alcohol, (S)-(-)-Perillyl Alcohol
MF: C₁₀H₁₆O
FW: 152.2
Purity: ≥95%
Supplied as: A neat oil
Storage: -20°C
Stability: ≥2 years
Item Origin: Synthetic



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

(-)-Perillyl alcohol is supplied as a neat oil. A stock solution may be made by dissolving the (-)-perillyl alcohol in the solvent of choice, which should be purged with an inert gas. (-)-Perillyl alcohol is miscible in organic solvents such as ethanol, DMSO, and dimethyl formamide.

Description

(-)-Perillyl alcohol is a monoterpene alcohol that has been found in lavender essential oil and has diverse biological activities.¹⁻⁴ It reduces production of hydroperoxides and thiobarbituric acid reactive substances (TBARS) *in vitro* in a concentration-dependent manner.² (-)-Perillyl alcohol inhibits PANC-1 pancreatic carcinoma cell and H-Ras-transformed fibroblast growth when used at a concentration of 1 mM.³ It also inhibits the growth of *P. aeruginosa*, *E. coli*, *S. aureus*, and *C. albicans* (MICs = 480-2,900 ppm).⁴

References

- Gerhäuser, C., Klimo, K., Heiss, E., *et al.* Mechanism-based *in vitro* screening of potential cancer chemopreventive agents. *Mutat. Res.* **523-524**, 163-172 (2003).
- Ruberto, G. and Baratta, M.T. Antioxidant activity of selected essential oil components in two lipid model systems. *Food Chem.* **69(2)**, 167-174 (2000).
- Karlson, J., Borg-Karlson, A.K., Unelius, R., *et al.* Inhibition of tumor cell growth by monoterpenes *in vitro*: Evidence of a Ras-independent mechanism of action. *Anticancer Drugs* **7(4)**, 422-429 (1996).
- Griffin, S.G., Wyllie, S.G., Markham, J.L., *et al.* The role of structure and molecular properties of terpenoids in determining their antimicrobial activity. *Flavour Fragr. J.* **14(5)**, 322-332 (1999).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the [complete](#) Safety Data Sheet, which has been sent via email to your institution.

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CAYMAN CHEMICAL

1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA

PHONE: [800] 364-9897
[734] 971-3335

FAX: [734] 971-3640

CUSTSERV@CAYMANCHEM.COM
WWW.CAYMANCHEM.COM