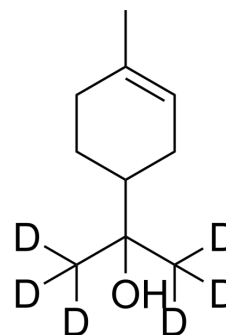


α -Terpineol-d₆

Cat. No.:	HY-N5142S1
CAS No.:	1263090-98-7
Molecular Formula:	C ₁₀ H ₁₂ D ₆ O
Molecular Weight:	160.29
Target:	Bacterial; Isotope-Labeled Compounds
Pathway:	Anti-infection; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	α -Terpineol-d ₆ is deuterated labeled Pulegone (HY-N1500). Pulegone, the major chemical constituent of <i>Nepeta cataria</i> essential oil which is an aromatic herb, is one of avian repellents ^[1] . The molecular target for the repellent action of Pulegone in avian species is nociceptive TRP ankyrin 1 (TRPA1). Pulegone stimulates both TRPM8 and TRPA1 channel in chicken sensory neurons and suppresses the former but not the latter at high concentrations ^[2] .
In Vitro	Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Park SN, et al. Antimicrobial effect of linalool and α -terpineol against periodontopathic and cariogenic bacteria. *Anaerobe*. 2012 Jun;18(3):369-72.
- [2]. Park MJ, et al. Effect of citral, eugenol, nerolidol and alpha-terpineol on the ultrastructural changes of *Trichophyton mentagrophytes*. *Fitoterapia*. 2009 Jul;80(5):290-6.
- [3]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019 Feb;53(2):211-216.

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

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