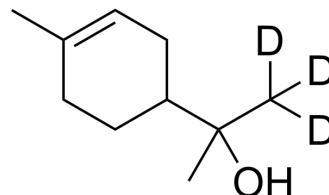


α -Terpineol-d₃

Cat. No.:	HY-N5142S
CAS No.:	203633-12-9
Molecular Formula:	C ₁₀ H ₁₅ D ₃ O
Molecular Weight:	157.27
Target:	Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	α -Terpineol-d ₃ is the deuterium labeled α -Terpineol[1]. α -Terpineol is isolated from Eucalyptus globulus Labill, exhibits strong antimicrobial activity against periodontopathic and cariogenic bacteria[2]. α -Terpineol possesses antifungal activity against T. mentagrophytes, and the activity might lead to irreversible cellular disruption[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]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019 Feb;53(2):211-216.
- [2]. Park SN, et al. Antimicrobial effect of linalool and α -terpineol against periodontopathic and cariogenic bacteria. Anaerobe. 2012 Jun;18(3):369-72.
- [3]. Park MJ, et al. Effect of citral, eugenol, nerolidol and alpha-terpineol on the ultrastructural changes of Trichophyton mentagrophytes. Fitoterapia. 2009 Jul80(5):290-6.

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

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