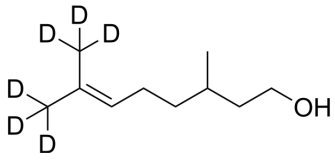
Citronellol-d_6

Cat. No.:	HY-W010201S
CAS No.:	220687-53-6
Molecular Formula:	$C_{10}H_{14}D_6O$
Molecular Weight:	162.3
Target:	Reactive Oxygen Species; Isotope-Labeled Compounds
Pathway:	Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Citronellol-d_6 is deuterated labeled Linalool (HY-N0368). Linalool is a natural monoterpene which is a competitive NMDA receptor antagonist. Linalool is orally active and crosses the blood-brain barrier. Linalool has anticancer, antibacterial, anti-inflammatory, neuroprotective, anxiolytic, antidepressant, anti-stress, cardioprotective, hepatoprotective, nephroprotective and pulmonary protective activities[1][2][3][4][5].
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]. Yu WN, et al. Citronellol Induces Necroptosis of Human Lung Cancer Cells via TNF-α Pathway and Reactive Oxygen Species Accumulation. In Vivo. 2019 Jul-Aug;33(4):1193-1201

[2]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019 Feb;53(2):211-216.

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