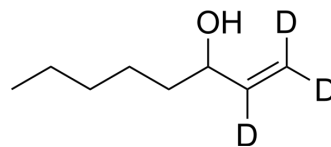


Oct-1-en-3-ol-d₃

Cat. No.:	HY-W010410S
CAS No.:	1335435-98-7
Molecular Formula:	C ₈ H ₁₃ D ₃ O
Molecular Weight:	131.23
Target:	Isotope-Labeled Compounds
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Oct-1-en-3-ol-d ₃ 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]. Haimin Chen, et al. 1-Octen-3-ol, a self-stimulating oxylipin messenger, can prime and induce defense of marine alga.
- [2]. Arati A Inamdar, et al. Fungal-derived semiochemical 1-octen-3-ol disrupts dopamine packaging and causes neurodegeneration. Proc Natl Acad Sci U S A. 2013 Nov 26;110(48):19561-6.
- [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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