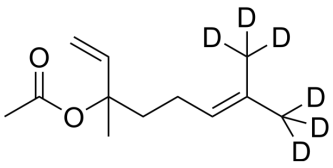
Linalyl acetate-d_6

Cat. No.:	HY-N6948S
Molecular Formula:	$C_{12}H_{14}D_6O_2$
Molecular Weight:	202.32
Target:	Isotope-Labeled Compounds
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Linalyl acetate-d_6 is deuterated labeled Omeprazole (HY-B0113). Omeprazole (H 16868), a proton pump inhibitor (PPI), is available for treatment of acid-related gastrointestinal disorders. Omeprazole shows competitive inhibition of CYP2C19 activity with a K_i of 2 to 6 μM[1]. Omeprazole also inhibits growth of Gram-positive and Gram-negative bacteria[2] .Omeprazole is a potent brain penetrant neutral sphingomyelinase (N-SMase) inhibitor (exosome inhibitor)[3].
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]. A.T. Peana, et al. Anti-inflammatory activity of linalool and linalyl acetate constituents of essential oils,Phytomedicine. 2002 Dec;9(8):721-6.

[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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