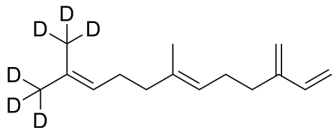
(E)-β-Farnesene-d_6

Cat. No.:	HY-N7364S
CAS No.:	1092965-77-9
Molecular Formula:	$C_{15}H_{18}D_6$
Molecular Weight:	210.39
Target:	Fungal; Isotope-Labeled Compounds
Pathway:	Anti-infection; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	(E)-β-Farnesene-d_6 is deuterated labeled Nerol (HY-N7063). Nerol is a constituent of neroli oil. Nerol Nerol triggers mitochondrial dysfunction and induces apoptosis via elevation of Ca^{2+} and ROS. Antifungal activity[1][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]. Torky ZA, et, al. Chemical profiling, antiviral and antiproliferative activities of the essential oil of Phlomis aurea Decne grown in Egypt. Food Funct. 2021 May 21;12(10):4630-4643.

[2]. Tesh RB, et, al. Trans-beta-farnesene as a feeding stimulant for the sand fly Lutzomyia longipalpis (Diptera: Psychodidae). J Med Entomol. 1992 Mar;29(2):226-31.

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

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA