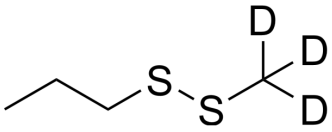
Methyl propyl disulfide-d_3

Cat. No.:	HY-N7436S
CAS No.:	1335436-28-6
Molecular Formula:	$C_4H_7D_3S_2$
Molecular Weight:	125.27
Target:	Isotope-Labeled Compounds
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Methyl propyl disulfide-d_3 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]. Rajkumar Nandakumar, et al. Impact of Pulsed Electric Fields on the Volatile Compounds Produced in Whole Onions (Allium cepa and Allium fistulosum). Foods. 2018 Nov 7;7(11):183.

[2]. T Matsuda, et al. Dose-dependent inhibition of glutathione S-transferase placental form-positive hepatocellular foci induction in the rat by methyl propyl disulfide and propylene sulfide from garlic and onions. Cancer Lett. 1994 Nov 11;86(2):229-34.

[3]. 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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