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Zuschläge

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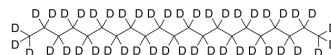
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Heneicosane-d₄₄

Cat. No.:	HY-W089845S
CAS No.:	39756-37-1
Molecular Formula:	C ₂₁ D ₄₄
Molecular Weight:	340.85
Target:	Fungal
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Heneicosane-d ₄₄ is the deuterium labeled Heneicosane[1]. Heneicosane is an aroma component isolated from <i>Streptomyces philanthi</i> RL-1-178 or <i>Serapias cordigera</i> . Heneicosane is a pheromone and inhibits aflatoxin production[2][3][4].
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]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019 Feb;53(2):211-216.
- [2]. Colin F Funaro, et al. Identification of a queen and king recognition pheromone in the subterranean termite *Reticulitermes flavipes*. *Proc Natl Acad Sci U S A*. 2018 Apr 10;115(15):3888-3893.
- [3]. S Boukaew, et al. Efficacy of volatile compounds from *Streptomyces philanthi* RL-1-178 as a biofumigant for controlling growth and aflatoxin production of the two aflatoxin-producing fungi on stored soybean seeds. *J Appl Microbiol*. 2020 Sep;129(3):652-664.
- [4]. Maurizio D'Auria, et al. The composition of the aroma of *Serapias* orchids in Basilicata (Southern Italy). *Nat Prod Res*. 2020 Jan 201-5.

Caution: Product has not been fully validated for medical applications. For research use only.

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