

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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siehe unsere Liefer- und Versandbedingungen

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MCE MedChemExpress

Linalool-13C₃

Cat. No.: HY-N0368S1 Molecular Formula: $C_7^{13}C_3H_{18}O$ Molecular Weight: 157.23

Target: Apoptosis; Endogenous Metabolite; iGluR; Bacterial; Isotope-Labeled Compounds

Pathway: Apoptosis; Metabolic Enzyme/Protease; Membrane Transporter/Ion Channel;

Neuronal Signaling; Anti-infection; Others

Storage: Please store the product under the recommended conditions in the Certificate of

Analysis.

BIOLOGICAL ACTIVITY

Description	Linalool- 13 C ₃ is 13 C labeled α -Hexylcinnamaldehyde (HY-W014118). α -Hexylcinnamaldehyde, a compound derived from Cinnamaldehyde. α -Hexylcinnamaldehyde has the potential antimutagenic and chemosensitizing properties. α -Hexylcinnamaldehyde is widely used as an ingredient in many personal care, and as an additive in food and the pharmaceutical industry $^{[1]}$.
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] . Linalool (0-2000 µM, 24-72 h) can induce apoptosis of cancer cells (U87-MG, HepG-2, SW620 and so on) through oxidative stress while protecting normal cells PC12 ^[4] . Linalool (0-2000 mg/mL, 0-72 h) exerts antibacterial effects by damaging cell membranes ^[4] . Linalool (0-2 mM, 24-48 h) inhibits A549 cell proliferation by inducing G0/G1 and/or G2/M cell cycle arrest, and without affecting the cell viability of normal lung WI-38 cells. Linalool inhibits A549 cell migration ^[5] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Linalool (150, 200, 250 mg/kg orally every alternate day for 21 days) reduces tumor growth by 50% in the S-180 solid tumor mouse model, inhibits oxidation in normal liver, and promotes oxidation in tumor tissue ^[6] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

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6]. Russak EM, et al. Impact of De	uterium Substitution on the Phar	macokinetics of Pharmaceutic	cals. Ann Pharmacother. 2019 Feb;5	53(2):211-216.	
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