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Produktinformation



Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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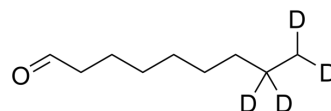
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Nonanal-d₄

Cat. No.:	HY-N8016S1
CAS No.:	1335401-96-1
Molecular Formula:	C ₉ H ₁₄ D ₄ O
Molecular Weight:	146.26
Target:	Isotope-Labeled Compounds
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Nonanal-d ₄ is deuterated labeled Methyl propyl disulfide (HY-N7436). Methyl propyl disulfide is a volatile sulfur-containing compound produced in garlic and onions with anticancer effect ^{[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] . Nonanal shows a significant activity against <i>B. cereus</i> and <i>L. monocytogenes</i> , the MIC values are both 7.8 µg/ml ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Nonanal shows a significant inhibitory effect on mice with diarrhoea induced with castor oil ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Miguel A, et al. Antidiarrhoeal Activity of Nonanal, an Aldehyde Isolated from *Artemisia ludoviciana*. *Pharmaceutical Biology* Volume 40, 2002 - Issue 4
- [2]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019 Feb;53(2):211-216.

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

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