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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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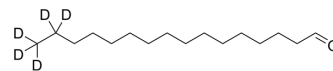
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Hexadecanal-d₅

Cat. No.:	HY-W004305S
CAS No.:	2703602-66-6
Molecular Formula:	C ₁₆ H ₂₇ D ₅ O
Molecular Weight:	245.46
Target:	Isotope-Labeled Compounds; Endogenous Metabolite
Pathway:	Others; Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Hexadecanal-d₅ (Palmitaldehyde-d₅) is deuterium labeled Hexadecanal. Hexadecanal (Palmitaldehyde), a volatile long-chain aliphatic aldehyde, is emitted from human feces, skin, and breath. The receptor for hexadecanal (OR37B) is highly conserved across mammals. Hexadecanal may exert its effects by modulating functional connectivity between the brain substrates of social appraisal and the brain substrates of aggressive execution. Also, Hexadecanal is confirmed to be highly deterrent to the ant *Lasius niger*. Hexadecanal is promising for the research of startle responses and aggression^{[1][2][3][4]}

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019 Feb;53(2):211-216.
- [2]. Mishor E, et al. Sniffing the human body volatile hexadecanal blocks aggression in men but triggers aggression in women[J]. *Sci Adv*. 2021 Nov 19;7(47):eabg1530.
- [3]. Gilbertson JR, et al. Isolation and analysis of free fatty aldehydes from rat, dog, and bovine heart muscle. *J Lipid Res*. 1967 Jan;8(1):38-45.
- [4]. Jaffuel G, et al. Potent Ant Deterrents Emitted from Nematode-Infected Insect Cadavers[J]. *J Chem Ecol*. 2022 Jan;48(1):71-78.

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

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