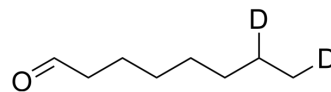


## Octanal-d<sub>2</sub>

Cat. No.:	HY-N8015S1
CAS No.:	1082582-28-2
Molecular Formula:	C <sub>8</sub> H <sub>14</sub> D <sub>2</sub> O
Molecular Weight:	130.22
Target:	Bacterial; Endogenous Metabolite; Isotope-Labeled Compounds
Pathway:	Anti-infection; Metabolic Enzyme/Protease; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Octanal-d <sub>2</sub> is deuterated labeled Myrcene (HY-N0803). Myrcene (β-Myrcene) is a type of aromatic compound that inhibits TNFα and NF-κB activity. Myrcene has anti-invasive action, inhibits cell cycle, and leads to cancer cell apoptosis. Myrcene has strong blood protection effect, anti-inflammation, and anti-inflammatory activity <sup>[1][2][3][4][5]</sup> .
<b>In Vitro</b>	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 <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

- [1]. Kehai Liu, et al. Isolation and biological activities of decanal, linalool, valencene, and octanal from sweet orange oil. J Food Sci. 2012 Nov;77(11):C1156-61.
- [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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