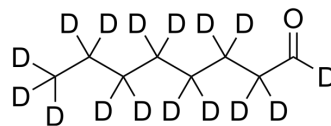


## Octanal-d<sub>16</sub>

<b>Cat. No.:</b>	HY-N8015S
<b>CAS No.:</b>	1219794-66-7
<b>Molecular Formula:</b>	C <sub>8</sub> D <sub>16</sub> O
<b>Molecular Weight:</b>	144.31
<b>Target:</b>	Bacterial; Endogenous Metabolite
<b>Pathway:</b>	Anti-infection; Metabolic Enzyme/Protease
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Octanal-d <sub>16</sub> is the deuterium labeled Octanal[1]. Octanal is an aromatic aldehyde, with antioxidant and antimicrobial activities. Octanal shows cytotoxicity against Hela cells[2].
<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]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019 Feb;53(2):211-216.
- [2]. 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.

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

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