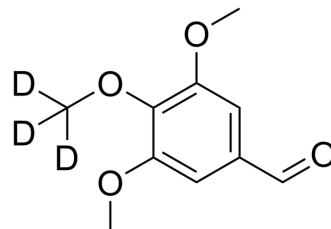


## 3,4,5-Trimethoxybenzaldehyde-d<sub>3</sub>

Cat. No.:	HY-W009886S
CAS No.:	1219805-17-0
Molecular Formula:	C <sub>10</sub> H <sub>9</sub> D <sub>3</sub> O <sub>4</sub>
Molecular Weight:	199.22
Target:	Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	3,4,5-Trimethoxybenzaldehyde-d <sub>3</sub> is the deuterium labeled 3,4,5-Trimethoxybenzaldehyde. 3,4,5-Trimethoxybenzaldehyde is an intermediate for the synthesis of various pharmaceuticals, especially for trimethoprim used to research bacterial infections, including urinary tract pathogens infection.
<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]. Basanti LalHiran, et al. Oxidation of 3,4,5-trimethoxybenzaldehyde by pyridinium fluorochromate in N,N-dimethyl formamide medium: A kinetic and mechanistic study. *Arabian Journal of Chemistry*. Volume 9, Supplement 1, September 2016, Pages S440-S445

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

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