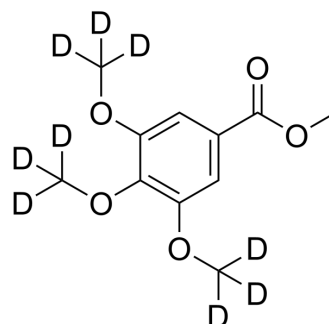


## Methyl 3,4,5-trimethoxybenzoate-d<sub>9</sub>

<b>Cat. No.:</b>	HY-N2044S
<b>CAS No.:</b>	1182838-07-8
<b>Molecular Formula:</b>	C <sub>11</sub> H <sub>5</sub> D <sub>9</sub> O <sub>5</sub>
<b>Molecular Weight:</b>	235.28
<b>Target:</b>	Isotope-Labeled Compounds
<b>Pathway:</b>	Others
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Methyl 3,4,5-trimethoxybenzoate-d <sub>9</sub> is the deuterium labeled Methyl 3,4,5-trimethoxybenzoate[1]. Methyl 3,4,5-trimethoxybenzoate can be synthesized from Gallic acid. Methyl 3,4,5-trimethoxybenzoate is mainly used in the production of Trimethoprim (TMP), Sulfa synergistic intermediates, and many other agents[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]. Method for synthesizing methyl 3,4,5-trimethoxybenzoate from gallic acid. CN105732375A.

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

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