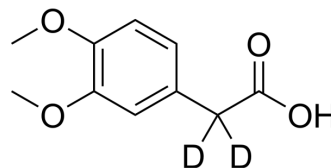


## 3,4-Dimethoxyphenylacetic acid-d<sub>2</sub>

Cat. No.:	HY-Y0771S
CAS No.:	19031-58-4
Molecular Formula:	C <sub>10</sub> H <sub>10</sub> D <sub>2</sub> O <sub>4</sub>
Molecular Weight:	198.21
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	3,4-Dimethoxyphenylacetic acid-d <sub>2</sub> is the deuterium labeled 3,4-Dimethoxyphenylacetic acid[1]. 3,4-Dimethoxyphenylacetic acid is a building block in the chemical synthesis[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]. Frederick A, et al. Occurrence of 3,4-Dimethoxyphenylacetic Acid in Urines of Normal and Schizophrenic Individuals. *Nature* volume211, pages606-608 (06 August 1966)

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

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