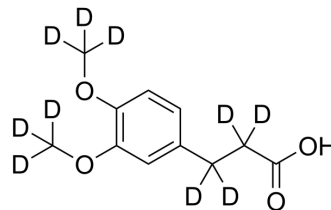


3-(3,4-Dimethoxyphenyl)propanoic acid-d₁₀

Cat. No.:	HY-Y1620S
CAS No.:	1398065-72-9
Molecular Formula:	C ₁₁ H ₄ D ₁₀ O ₄
Molecular Weight:	220.29
Target:	Isotope-Labeled Compounds
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	3-(3,4-Dimethoxyphenyl)propanoic acid-d ₁₀ is the deuterium labeled 3-(3,4-Dimethoxyphenyl)propanoic acid. 3-(3,4-Dimethoxyphenyl)propanoic acid is an orally active short-chain fatty acids (SCFAs). 3-(3,4-Dimethoxyphenyl)propanoic acid stimulates γ globin gene expression, erythropoiesis in vivo and is used for the β hemoglobinopathies and other anemias[1].
In Vitro	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 ^[1] . 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;53(2):211-216.
- [2]. Pace BS, et al. Short-chain fatty acid derivatives induce fetal globin expression and erythropoiesis in vivo. *lood.* 2002 Dec 15;100(13):4640-8.

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

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