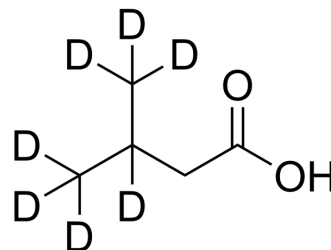


## Isovaleric acid-d<sub>7</sub>

<b>Cat. No.:</b>	HY-W012980S3
<b>CAS No.:</b>	1219805-32-9
<b>Molecular Formula:</b>	C <sub>5</sub> H <sub>3</sub> D <sub>7</sub> O <sub>2</sub>
<b>Molecular Weight:</b>	109.17
<b>Target:</b>	Endogenous Metabolite
<b>Pathway:</b>	Metabolic Enzyme/Protease
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Isovaleric acid-d <sub>7</sub> is the deuterium labeled Isovaleric acid[1]. Isovaleric acid is a natural fatty acid and known to effect on neonatal death and possible Jamaican vomiting sickness in human[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]. Ackman RG, et al. Birthweights in the Faroe Islands: possible role of isovaleric acid. *J Intern Med*. 1989 Feb;225(2):73-5.

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

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