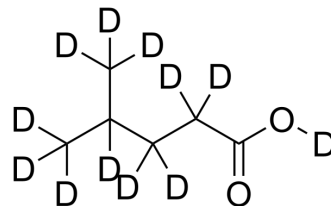


## 4-Methylpentanoic acid-d<sub>12</sub>

<b>Cat. No.:</b>	HY-W015882S		
<b>CAS No.:</b>	116287-57-1		
<b>Molecular Formula:</b>	C <sub>6</sub> D <sub>12</sub> O <sub>2</sub>		
<b>Molecular Weight:</b>	128.23		
<b>Target:</b>	Isotope-Labeled Compounds		
<b>Pathway:</b>	Others		
<b>Storage:</b>	Pure form	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### BIOLOGICAL ACTIVITY

<b>Description</b>	4-Methylpentanoic acid-d <sub>12</sub> is the deuterium labeled 4-Methylpentanoic acid. 4-Methylpentanoic acid (Isocaproic Acid) is a Short chain fatty acid (SCFA)[1].
<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;53(2):211-216.
- [2]. Skonieczna-Żydecka K, et al. Faecal Short Chain Fatty Acids Profile is Changed in Polish Depressive Women. *Nutrients.* 2018 Dec 7;10(12).

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

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