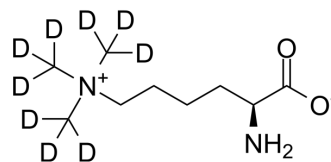


Trimethyllysine-d₉

Cat. No.:	HY-143711S		
CAS No.:	1182037-78-0		
Molecular Formula:	C ₉ H ₁₁ D ₉ N ₂ O ₂		
Molecular Weight:	197.32		
Target:	Isotope-Labeled Compounds		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



BIOLOGICAL ACTIVITY

Description

Trimethyllysine-d₉ is the deuterium labeled Trimethyllysine (HY-143711)^[1]. Trimethyllysine is an important post-translationally modified amino acid, involving in carnitine biosynthesis and epigenetic processes^[2].

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 Feb;53(2):211-216.
- [2]. Maas MN, et al. Trimethyllysine: From Carnitine Biosynthesis to Epigenetics. *Int J Mol Sci*. 2020 Dec 11;21(24):9451.

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

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