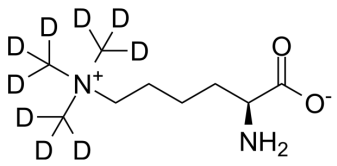
Trimethyllysine-d_9

Cat. No.:	HY-143711S
CAS No.:	1182037-78-0
Molecular Formula:	$C_9H_{11}D_9N_2O_2$
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



SOLVENT & SOLUBILITY

In Vitro

H_2O : 100 mg/mL (506.79 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	5.0679 mL	25.3395 mL	50.6791 mL
	5 mM	1.0136 mL	5.0679 mL	10.1358 mL
	10 mM	0.5068 mL	2.5340 mL	5.0679 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Trimethyllysine-$d_9$is the deuterium labeledTrimethyllysine(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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