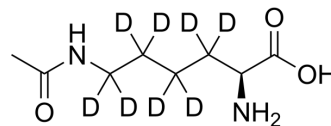


Nepsilon-acetyl-L-lysine-d₈

Cat. No.:	HY-113426S		
Molecular Formula:	C ₈ H ₈ D ₈ N ₂ O ₃		
Molecular Weight:	196.27		
Target:	Endogenous Metabolite; Isotope-Labeled Compounds		
Pathway:	Metabolic Enzyme/Protease; Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



BIOLOGICAL ACTIVITY

Description	Nepsilon-acetyl-L-lysine-d ₈ is the deuterium labeled Nepsilon-acetyl-L-lysine. Nepsilon-Acetyl-L-lysine is a derivative of the amino acid lysine.
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]. Schmidt H, et al. Characterization of a novel enzyme, N6-acetyl-L-lysine: 2-oxoglutarate aminotransferase, which catalyses the second step of lysine catabolism in *Candida maltosa*. *Antonie Van Leeuwenhoek.* 1992 Nov;62(4):285-90.
- [3]. H Schmidt, et al. Characterization of a novel enzyme, N6-acetyl-L-lysine: 2-oxoglutarate aminotransferase, which catalyses the second step of lysine catabolism in *Candida maltosa*. *Antonie Van Leeuwenhoek.* 1992 Nov;62(4):285-90.

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

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