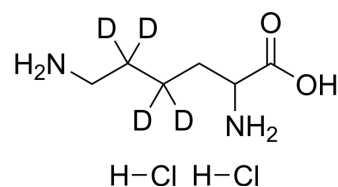


DL-Lysine-d₄ dihydrochloride

Cat. No.:	HY-B2236S		
CAS No.:	284664-88-6		
Molecular Formula:	C ₆ H ₁₂ D ₄ Cl ₂ N ₂ O ₂		
Molecular Weight:	223.13		
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	DL-Lysine-4,4,5,5-d ₄ (dihydrochloride) is the deuterium labeled DL-Lysine. DL-Lysine is a racemic mixture of the D-Lysine and L-Lysine. Lysine is an α-amino acid that is used in the biosynthesis of proteins[1].
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]. Stoyanka S Atanassova, et al. Influence of the lysine on the calcium oxalate renal calculi. *Int Urol Nephrol.* 2014 Mar;46(3):593-7.

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

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