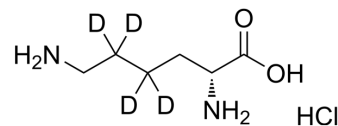


D-Lysine-d₄ monohydrochloride

Cat. No.:	HY-Y1804S
CAS No.:	2714413-18-8
Molecular Formula:	C ₆ H ₁₁ D ₄ ClN ₂ O ₂
Molecular Weight:	186.67
Target:	Endogenous Metabolite; Isotope-Labeled Compounds
Pathway:	Metabolic Enzyme/Protease; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	D-Lysine-d ₄ (monohydrochloride) is the deuterium labeled D-Lysine. D-Lysine monohydrochloride is a Lysine stereoisomer which can be used as a component of surfactants[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]. Mondal D, et, al. Synthesis and antibacterial properties of carbohydrate-templated lysine surfactants. *Carbohydr Res*. 2011 Apr 1;346(5):588-94.

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

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