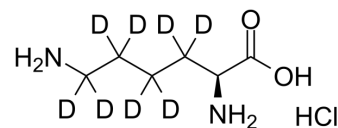


L-Lysine-d8 hydrochloride

Cat. No.:	HY-N0470S4
CAS No.:	344298-93-7
Molecular Formula:	C ₆ H ₇ D ₈ ClN ₂ O ₂
Molecular Weight:	190.7
Target:	Virus Protease; Endogenous Metabolite
Pathway:	Anti-infection; Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	L-Lysine-d8 hydrochloride is the deuterium labeled L-Lysine hydrochloride. L-lysine hydrochloride is an essential amino acid for humans with various benefits including treating herpes, increasing calcium absorption, reducing diabetes-related illnesses and improving gut health.
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]. Al-Malki AL, et al. Suppression of acute pancreatitis by L-lysine in mice. *BMC Complement Altern Med*. 2015 Jun 23;15:193.
- [2]. Baruffol C, et al. L-lysine dose dependently delays gastric emptying and increases intestinal fluid volume in humans and rats. *Neurogastroenterol Motil*. 2014 Jul;26(7):999-1009.
- [3]. Shimomura A, et al. Dietary L-lysine prevents arterial calcification in adenine-induced uremic rats. *J Am Soc Nephrol*. 2014 Sep;25(9):1954-65.
- [4]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019;53(2):211-216.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA