MCE MedChemExpress

Product Data Sheet

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L-Lysine-¹⁵N₂ hydrochloride

Cat. No.:	HY-N0470S	
CAS No.:	1217460-44-0	0
Molecular Formula:	C ₆ H ₁₅ Cl ¹⁵ N ₂ O ₂	$H_2^{15}N$
Molecular Weight:	184.64	- ~ ~ ¥ OH
Target:	Endogenous Metabolite; Virus Protease	¹⁵ NH ₂
Pathway:	Metabolic Enzyme/Protease; Anti-infection	H-CI
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)	

SOLVENT & SOLUBILITY

		Solvent Mass Concentration	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	5.4159 mL	27.0797 mL	54.1594 mL
		5 mM	1.0832 mL	5.4159 mL	10.8319 mL
		10 mM	0.5416 mL	2.7080 mL	5.4159 mL

BIOLOGICAL ACTIVITY				
Description	L-Lysine- ¹⁵ N ₂ (hydrochloride) is the ¹⁵ N-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-lysinein 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-lysineprevents 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.

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