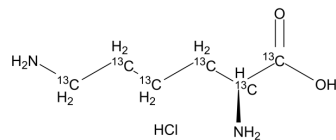


## L-Lysine-<sup>13</sup>C<sub>6</sub> hydrochloride

<b>Cat. No.:</b>	HY-N0470S8
<b>CAS No.:</b>	1228077-86-8
<b>Molecular Formula:</b>	<sup>13</sup> C <sub>6</sub> H <sub>15</sub> ClN <sub>2</sub> O <sub>2</sub>
<b>Molecular Weight:</b>	188.6
<b>Target:</b>	Endogenous Metabolite; Virus Protease
<b>Pathway:</b>	Metabolic Enzyme/Protease; Anti-infection
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	L-Lysine- <sup>13</sup> C <sub>6</sub> hydrochloride is the <sup>13</sup> C labeled L-Lysine hydrochloride[1]. 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[2][3][4].
<b>In Vitro</b>	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 <sup>[1]</sup> . 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 Feb;53(2):211-216.
- [2]. Al-Malki AL, et al. Suppression of acute pancreatitis by L-lysine in mice. *BMC Complement Altern Med.* 2015 Jun 23;15:193.
- [3]. 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.
- [4]. 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.

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

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