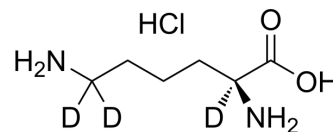


## L-Lysine-d<sub>3</sub> hydrochloride

|                           |   |
|---------------------------|---|
| <b>Cat. No.:</b>          | HY-N0469S   |
| <b>CAS No.:</b>           | 2330878-43-6  |
| <b>Molecular Formula:</b> | C <sub>6</sub> H <sub>12</sub> D <sub>3</sub> ClN <sub>2</sub> O <sub>2</sub>             |
| <b>Molecular Weight:</b>  | 185.67  |
| <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-d <sub>3</sub> (hydrochloride) is the deuterium labeled L-Lysine. L-lysine is an essential amino acid[1][2] with important roles in connective tissues and carnitine synthesis, energy production, growth in children, and maintenance of immune functions[2].  |
| <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> .<br>MCE has not independently confirmed the accuracy of these methods. They are for reference only. |

### REFERENCES

- [1]. Al-Malki AL. Suppression of acute pancreatitis by L-lysine in mice. BMC Complement Altern Med. 2015 Jun 23;15:193.
- [2]. Santos AMD, et al. Transitional metaplasia in intestinal epithelium of rats submitted to intestinal cystoplasty and treatment with L -lysine. Acta Cir Bras. 2017 Apr;32(4):297-306.
- [3]. 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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