
Product Data Sheet

Product Name: L-Lysine-15N2 hydrochloride

Cat. No.: GC63882

Chemical Properties

Cas. No. 1217460-44-0

Formula C₆H₁₅Cl₁₅N₂O₂

M.Wt 184.64

Solubility H₂O : 62.5 mg/mL (338.50 mM; Need ultrasonic) Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

Background

L-Lysine-15N2 hydrochloride is the 15N-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.

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].

[1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother.* 2019;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]. Al-Malki AL, et al. Suppression of acute pancreatitis by L-lysine in mice. *BMC Complement Altern Med.* 2015 Jun 23;15:193.

[4]. Al-Malki AL, et al. Suppression of acute pancreatitis by L-lysine in mice. *BMC Complement Altern Med.* 2015 Jun 23;15:193.

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

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- [5]. 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.
- [6]. 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.
- [7]. 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.
- [8]. 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.
- [9]. 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.
- [10]. 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.

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