L-Lysine-$^{13}C_6$ dihydrochloride

Cat. No.: HY-N0469S1

CAS No.: 201740-81-0

Molecular Formula: $^{13}C_6H_{16}Cl_2N_2O_2$

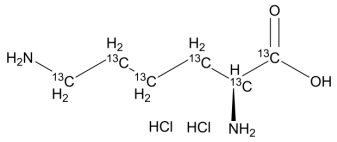
Molecular Weight: 225.07

Target: Endogenous Metabolite; Virus Protease

Pathway: Metabolic Enzyme/Protease; Anti-infection

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

In Vitro

H_2O : 250 mg/mL (1110.77 mM; Need ultrasonic)

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Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	4.4431 mL	22.2153 mL	44.4306 mL
5 mM	0.8886 mL	4.4431 mL	8.8861 mL
10 mM	0.4443 mL	2.2215 mL	4.4431 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

L-Lysine-$^{13}C_6$ (dihydrochloride) is the ^{13}C-labeled L-Lysine dihydrochloride. L-lysine dihydrochloride 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].

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]. 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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