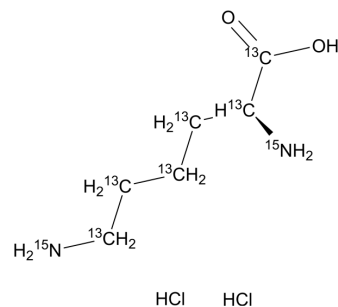


L-Lysine-¹³C₆, ¹⁵N₂ dihydrochloride

Cat. No.:	HY-W009762S
CAS No.:	202406-54-0
Molecular Formula:	¹³ C ₆ H ₁₆ Cl ₂ ¹⁵ N ₂ O ₂
Molecular Weight:	227.05
Target:	Isotope-Labeled Compounds
Pathway:	Others
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 125 mg/mL (550.54 mM; ultrasonic and warming and heat to 60°C)

Solvent	Mass	Concentration		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	4.4043 mL	22.0216 mL	44.0432 mL
	5 mM	0.8809 mL	4.4043 mL	8.8086 mL
	10 mM	0.4404 mL	2.2022 mL	4.4043 mL

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

BIOLOGICAL ACTIVITY

Description

L-Lysine-¹³C₆, ¹⁵N₂ (dihydrochloride) is a ¹⁵N-labeled and ¹³C-labeled L-Lysine dihydrochloride[1].

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 Feb;53(2):211-216.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA