Product Data Sheet

Product Name: L-Lysine-13C6 dihydrochloride
Cat. No.: GC69387

Chemical Properties

Cas. No.	201740-81-0		
Formula	$^{13}C_6H_{16}Cl_2N_2O_2$	M.Wt	225.07
Solubility	H2O : 250 mg/mL (1110.77 mM; Need ultrasonic)	Storage	4°C, away from moisture
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ 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	L-Lysine-13C6 dihydrochloride		

Background

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

Stable heavy isotopes of drogen, 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.

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