Product Data Sheet

Product Name: L-Lysine-13C6,15N2 dihydrochloride
Cat. No.: GC69386

Chemical Properties

Cas. No.	202406-54-0		
Formula	$^{13}C_6H_{16}Cl_2{}^{15}N_2O_2$	M.Wt	227.05
Solubility	DMSO : 125 mg/mL (550.54 mM; ultrasonic and warming and heat to 60°C)	Storage	4°C, away from moisture and light
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			

Background

L-Lysine-$^{13}C_6$,$^{15}N_2$ (didrochloride) is a ^{15}N-labeled and ^{13}C-labled L-Lysine didrochloride[1].

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 Feb;53(2):211-216.

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