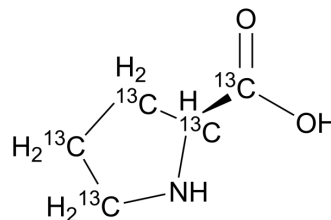


L-Proline-¹³C₅

Cat. No.:	HY-Y0252S		
CAS No.:	201740-83-2		
Molecular Formula:	¹³ C ₅ H ₉ NO ₂		
Molecular Weight:	120.09		
Target:	Endogenous Metabolite		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	H ₂ O : 125 mg/mL (1040.89 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		1 mM	8.3271 mL	41.6354 mL	83.2709 mL
		5 mM	1.6654 mL	8.3271 mL	16.6542 mL
	10 mM	0.8327 mL	4.1635 mL	8.3271 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: PBS Solubility: 100 mg/mL (832.71 mM); Clear solution; Need ultrasonic				

BIOLOGICAL ACTIVITY

Description	L-Proline- ¹³ C ₅ is the ¹³ C-labeled L-Proline. L-Proline is one of the twenty amino acids used in living organisms as the building blocks of proteins.
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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