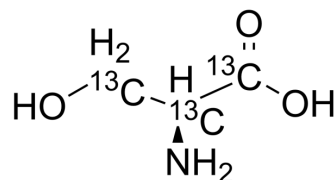


L-Serine-¹³C₃

Cat. No.:	HY-N0650S		
CAS No.:	201595-68-8		
Molecular Formula:	¹³ C ₃ H ₇ NO ₃		
Molecular Weight:	108.07		
Target:	Endogenous Metabolite		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	H ₂ O : 125 mg/mL (1156.66 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	9.2533 mL	46.2663 mL	92.5326 mL
		5 mM	1.8507 mL	9.2533 mL	18.5065 mL
10 mM		0.9253 mL	4.6266 mL	9.2533 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 (925.33 mM); Clear solution; Need ultrasonic				

BIOLOGICAL ACTIVITY

Description	L-Serine- ¹³ C ₃ is the ¹³ C-labeled L-Serine. L-Serine ((-)-Serine; (S)-Serine), one of the so-called non-essential amino acids, plays a central role in cellular proliferation.
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]. de Koning TJ, et al. L-Serine in disease and development. *Biochem J.* 2003 May 1;371(Pt 3):653-61.

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

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