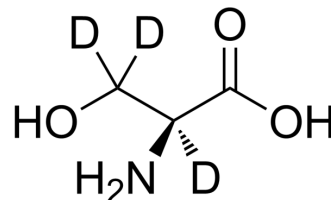


L-Serine-d₃

Cat. No.:	HY-N0650S8		
CAS No.:	105591-10-4		
Molecular Formula:	C ₃ H ₄ D ₃ NO ₃		
Molecular Weight:	108.11		
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 (1156.23 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	9.2498 mL	46.2492 mL	92.4984 mL
		5 mM	1.8500 mL	9.2498 mL	18.4997 mL
10 mM		0.9250 mL	4.6249 mL	9.2498 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: PBS Solubility: 50 mg/mL (462.49 mM); Clear solution; Need ultrasonic				

BIOLOGICAL ACTIVITY

Description	L-Serine-d ₃ is the deuterium 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

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

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