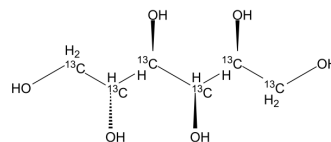


D-Sorbitol-¹³C₆

Cat. No.:	HY-B0400S16		
CAS No.:	121067-66-1		
Molecular Formula:	¹³ C ₆ H ₁₄ O ₆		
Molecular Weight:	188.13		
Target:	Bacterial; Endogenous Metabolite		
Pathway:	Anti-infection; 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

H₂O : 250 mg/mL (1328.87 mM; Need ultrasonic)

Solvent	Mass	Concentration		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	5.3155 mL	26.5774 mL	53.1547 mL
	5 mM	1.0631 mL	5.3155 mL	10.6309 mL
	10 mM	0.5315 mL	2.6577 mL	5.3155 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

D-Sorbitol-¹³C₆ is the ¹³C labeled D-Sorbitol[1]. D-Sorbitol (Sorbitol) is a six-carbon sugar alcohol and can be used as a sugar substitute. D-Sorbitol can be used as a stabilizing excipient and/or isotonicity agent, sweetener, humectant, thickener and dietary supplement[2].

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 Feb;53(2):211-216.

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

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