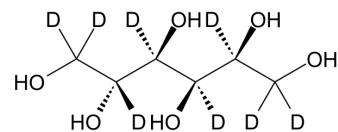


D-Sorbitol-d₈

Cat. No.:	HY-B0400S		
CAS No.:	287962-59-8		
Molecular Formula:	C ₆ H ₆ D ₈ O ₆		
Molecular Weight:	190.22		
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

DMSO : 100 mg/mL (525.71 mM; Need ultrasonic)
 H₂O : 100 mg/mL (525.71 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	5.2571 mL	26.2854 mL	52.5707 mL
	5 mM	1.0514 mL	5.2571 mL	10.5141 mL
	10 mM	0.5257 mL	2.6285 mL	5.2571 mL

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

BIOLOGICAL ACTIVITY

Description

D-Sorbitol-d₈ is the deuterium labeled D-Sorbitol. 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^[1].

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.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA