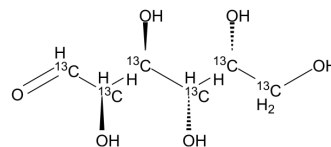


D-Galactose-¹³C₆

Cat. No.:	HY-N0210S16		
CAS No.:	74134-89-7		
Molecular Formula:	¹³ C ₆ H ₁₂ O ₆		
Molecular Weight:	186.11		
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

H₂O : 250 mg/mL (1343.29 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	5.3732 mL	26.8658 mL	53.7317 mL
5 mM	1.0746 mL	5.3732 mL	10.7463 mL
10 mM	0.5373 mL	2.6866 mL	5.3732 mL

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

BIOLOGICAL ACTIVITY

Description

D-Galactose-¹³C₆ is the deuterium labeled D-Galactose (HY-N0210). D-Galactose is a natural aldohexose and C-4 epimer of glucose^{[1][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 drug^[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.

[2]. Csiszovszki Z, et al. Structure and function of the D-galactose network in enterobacteria. *MBio.* 2011 Jun 28;2(4):e00053-11.

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

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