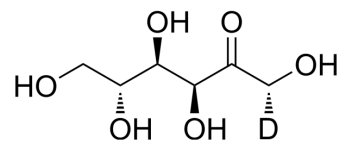


## D-Fructose-d

<b>Cat. No.:</b>	HY-N7092S8	
<b>CAS No.:</b>	374089-83-5	
<b>Molecular Formula:</b>	C <sub>6</sub> H <sub>11</sub> DO <sub>6</sub>	
<b>Molecular Weight:</b>	181.16	
<b>Target:</b>	Endogenous Metabolite; Isotope-Labeled Compounds	
<b>Pathway:</b>	Metabolic Enzyme/Protease; Others	
<b>Storage:</b>	Powder	-20°C 3 years
	In solvent	-80°C 6 months
		-20°C 1 month



### SOLVENT & SOLUBILITY

#### In Vitro

H<sub>2</sub>O : 100 mg/mL (552.00 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	5.5200 mL	27.5999 mL	55.1998 mL
	5 mM	1.1040 mL	5.5200 mL	11.0400 mL
	10 mM	0.5520 mL	2.7600 mL	5.5200 mL

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

### BIOLOGICAL ACTIVITY

#### Description

D-Fructose-d is the deuterium labeled D-Fructose. D-Fructose (D(-)-Fructose) is a naturally occurring monosaccharide found in many plants[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<sup>[1]</sup>.

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.

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

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