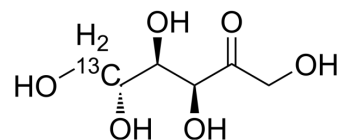


D-Fructose-6-¹³C

| | | | |
|---------------------------|--|-------|----------|
| Cat. No.: | HY-N7092S7 | | |
| CAS No.: | 287100-63-4 | | |
| Molecular Formula: | C ₅ ¹³ CH ₁₂ O ₆ | | |
| Molecular Weight: | 181.15 | | |
| 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 : 125 mg/mL (690.04 mM; Need ultrasonic)

| Solvent | Mass | Concentration | | |
|---------------------------|-------|---------------|------------|------------|
| | | 1 mg | 5 mg | 10 mg |
| Preparing Stock Solutions | 1 mM | 5.5203 mL | 27.6014 mL | 55.2029 mL |
| | 5 mM | 1.1041 mL | 5.5203 mL | 11.0406 mL |
| | 10 mM | 0.5520 mL | 2.7601 mL | 5.5203 mL |

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

BIOLOGICAL ACTIVITY

Description

D-Fructose-6-¹³C is the ¹³C 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^[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.

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