Fosfructose-$^{13}C_6$ tetrasodium hydrate

Cat. No.: HY-106950S1

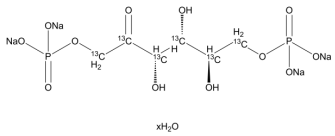
Molecular Formula: $^{13}C_6H_{10}Na_4O_{12}P_2$

Molecular Weight: 434

Target: Endogenous Metabolite

Pathway: Metabolic Enzyme/Protease

Storage: -20°C, protect from light, stored under nitrogen
* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 30 mg/mL (69.12 mM; Need ultrasonic and warming)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.3041 mL	11.5207 mL	23.0415 mL
	5 mM	0.4608 mL	2.3041 mL	4.6083 mL
	10 mM	0.2304 mL	1.1521 mL	2.3041 mL

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

BIOLOGICAL ACTIVITY

Description

Fosfructose-$^{13}C_6$ (tetrasodium hydrate) is the ^{13}C labeled Fosfructose (HY-106950). Fosfructose is a cytoprotective natural sugar phosphate for the potential treatment of cardiovascular ischemia, sickle cell anemia and asthma[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.

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