D-Glucose 6-Phosphate-$^{13}C_6$ disodium xhydrate

Cat. No.: HY-112537S1

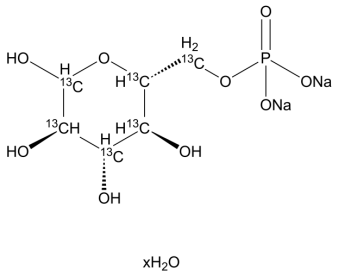
Molecular Formula: $^{13}C_6H_{11}Na_2O_9P$

Molecular Weight: 310.06

Target: Isotope-Labeled Compounds

Pathway: Others

Storage: 4°C, sealed storage, away from moisture and light
* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

H_2O : 250 mg/mL (806.30 mM; Need ultrasonic)

Preparing Stock Solutions	Concentration \ Solvent \ Mass	1 mg	5 mg	10 mg
	1 mM	3.2252 mL	16.1259 mL	32.2518 mL
	5 mM	0.6450 mL	3.2252 mL	6.4504 mL
	10 mM	0.3225 mL	1.6126 mL	3.2252 mL

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

BIOLOGICAL ACTIVITY

Description

D-Glucose 6-Phosphate-$^{13}C_6$ disodium xhydrateis the ^{13}C labeledD-Glucose 6-phosphate(HY-112537)[1]. D-Glucose 6-phosphate is a glucose sugar phosphorylated at the hydroxy group on carbon 6[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 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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