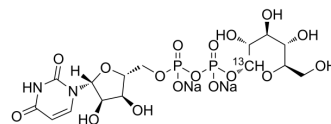


Uridine 5'-diphosphoglucose-¹³C disodium

Cat. No.:	HY-N7032S
CAS No.:	478529-38-3
Molecular Formula:	C ₁₄ ¹³ CH ₂₂ N ₂ Na ₂ O ₁₇ P ₂
Molecular Weight:	611.26
Target:	Endogenous Metabolite; P2Y Receptor; Isotope-Labeled Compounds
Pathway:	Metabolic Enzyme/Protease; GPCR/G Protein; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Uridine 5'-diphosphoglucose- ¹³ C (disodium) is the ¹³ C labeled Uridine 5'-diphosphoglucose disodium salt. Uridine 5'-diphosphoglucose disodium salt (UDP-D-Glucose disodium salt) is the precursor of glucose-containing oligosaccharides, polysaccharides, glycop
IC₅₀ & Target	P2Y6 Receptor
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.
- [2]. DietrichKeppler, et al. Uridine-5'-diphosphoglucose. *Methods of Enzymatic Analysis (Second English Edition)*. 1974;4:2225-2228.; Das A, et al. Human P2Y(14) receptor agonists: truncation of the hexose moiety of uridine-5'-diphosphoglucose and its replacemen

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

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