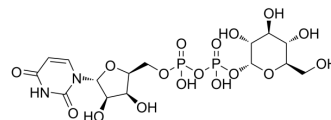


Uridine diphosphate glucose

Cat. No.:	HY-113044
CAS No.:	133-89-1
Molecular Formula:	C ₁₅ H ₂₄ N ₂ O ₁₇ P ₂
Molecular Weight:	566.3
Target:	Endogenous Metabolite; P2Y Receptor
Pathway:	Metabolic Enzyme/Protease; GPCR/G Protein
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Uridine diphosphate glucose is the precursor of glucose-containing oligosaccharides, polysaccharides, glycoproteins, and glycolipids in animal tissues and in some microorganisms. Uridine diphosphate glucose is an agonist of the P2Y ₁₄ receptor, a neuroimmune system GPCR ¹ .		
IC₅₀ & Target	Human Endogenous Metabolite	P2Y14 Receptor	Microbial Metabolite

CUSTOMER VALIDATION

- J Am Chem Soc. 2020 Sep 16;142(37):16039-16050.
- Evid Based Complement Alternat Med. 23 Nov 2022
- Research Square Preprint. 2021 Nov.

See more customer validations on www.MedChemExpress.com

REFERENCES

- [1]. DietrichKeppler, et al. Uridine-5'-diphosphoglucose. Methods of Enzymatic Analysis (Second English Edition). 1974;4:2225-2228.
- [2]. Das A, et al. Human P2Y(14) receptor agonists: truncation of the hexose moiety of uridine-5'-diphosphoglucose and its replacement with alkyl and aryl groups. J Med Chem. 2010 Jan 14;53(1):471-80.

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

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