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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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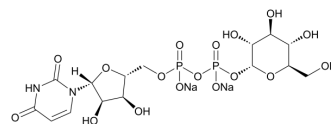
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Uridine 5'-diphosphoglucose disodium salt

Cat. No.:	HY-N7032
CAS No.:	28053-08-9
Molecular Formula:	C ₁₅ H ₂₂ N ₂ Na ₂ O ₁₇ P ₂
Molecular Weight:	610.27
Target:	Endogenous Metabolite; P2Y Receptor
Pathway:	Metabolic Enzyme/Protease; GPCR/G Protein
Storage:	-80°C, protect from light, stored under nitrogen



SOLVENT & SOLUBILITY

In Vitro

H₂O : ≥ 250 mg/mL (409.65 mM)
 DMSO : 115 mg/mL (188.44 mM; ultrasonic and warming and heat to 60°C)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
			1 mM	1.6386 mL	8.1931 mL
	5 mM	0.3277 mL	1.6386 mL	3.2772 mL	
	10 mM	0.1639 mL	0.8193 mL	1.6386 mL	

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

In Vivo

- Add each solvent one by one: PBS
Solubility: 100 mg/mL (163.86 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 5 mg/mL (8.19 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 0.55 mg/mL (0.90 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Uridine 5'-diphosphoglucose disodium salt (UDP-D-Glucose disodium salt) is the precursor of glucose-containing oligosaccharides, polysaccharides, glycoproteins, and glycolipids in animal tissues and in some microorganisms. Uridine-5'-diphosphoglucose is an agonist of the P2Y₁₄ receptor, a neuroimmune system GPCR^[1].

IC₅₀ & Target

Human Endogenous Metabolite	P2Y ₁₄ Receptor	Microbial Metabolite
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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.
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Caution: Product has not been fully validated for medical applications. For research use only.

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