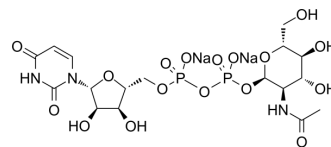


UDP-GlcNAc disodium

Cat. No.:	HY-112174
CAS No.:	91183-98-1
Molecular Formula:	C ₁₇ H ₂₅ N ₃ Na ₂ O ₁₇ P ₂
Molecular Weight:	651.32
Target:	Others
Pathway:	Others
Storage:	-20°C, sealed storage, away from moisture * The compound is unstable in solutions, freshly prepared is recommended.



SOLVENT & SOLUBILITY

In Vitro

DMSO : 250 mg/mL (383.84 mM; Need ultrasonic)
H₂O : 125 mg/mL (191.92 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	1.5353 mL	7.6767 mL	15.3534 mL
	5 mM	0.3071 mL	1.5353 mL	3.0707 mL
	10 mM	0.1535 mL	0.7677 mL	1.5353 mL

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.08 mg/mL (3.19 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.08 mg/mL (3.19 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.08 mg/mL (3.19 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

UDP-GlcNAc Disodium Salt (UDP-α-D-N-Acetylglucosamine Disodium Salt) is a donor substrate of O-GlcNAc transferase (OGT).

In Vitro

OGT is a nucleocytoplasmic glycosyltransferase (uridine diphospho-N--acetylglucosamine:polypeptide β-N-acetylglucosaminyltransferase or O-GlcNAc transferase) assigned to the GT41 family in the CAZY (Carbohydrate-Active enZYme) database. Using UDP-GlcNAc Disodium Salt (UDP-GlcNAc) as the donor substrate, this enzyme modifies thousands of proteins by adding a unique N-acetylglucosamine residue onto acceptor substrates mainly confined within cytosol and nucleus^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Signal Transduct Target Ther. 2023 Feb 10;8(1):63.
- Int J Biol Sci. 2022 Jun 21;18(10):4135-4150.
- Laurea Magistrale in Biomedical Engineering, Politecnico di Milano. 2019 Jun.

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REFERENCES

[1]. Lefebvre T, et al. Antibodies and activity measurements for the detection of O-GlcNAc transferase and assay of its substrate, UDP-GlcNAc. Methods Mol Biol. 2013;1022:147-59.

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

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