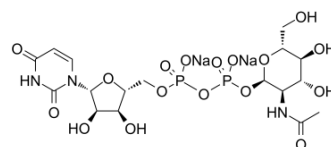


UDP-GlcNAc Disodium Salt

Cat. No.: HY-112174
CAS No.: 91183-98-1
Molecular Formula: C₁₇H₂₅N₃Na₂O₁₇P₂
Molecular Weight: 651.32
Target: Others
Pathway: Others
Storage: Powder -20°C 3 years



* The compound is unstable in solutions, freshly prepared is recommended.

SOLVENT & SOLUBILITY

In Vitro	DMSO : 250 mg/mL (383.84 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	1. 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					
	2. 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					
	3. 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

- Laurea Magistrale in Biomedical Engineering, Politecnico di Milano. 2019 Jun.

See more customer validations on www.MedChemExpress.com

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.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA