# Data Sheet (Cat.No.T19596)

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## UDP-GlcNAc Disodium Salt

### Chemical Properties

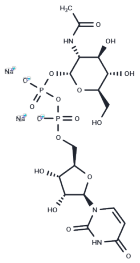
CAS No. : 91183-98-1

Formula: C17H25N3Na2O17P2

Molecular Weight: 651.32

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



### Biological Description

| | |
|---|---|
| Description | UDP-GlcNAc Disodium Salt (UDP-α-D-N-Acetylglucosamine Disodium Salt) is a nucleotide sugar. It is synthesized from glucose via the hexosamine biosynthetic pathway (HBP). |
| Targets(IC50) | Others |
| In vitro | OGT is a nucleocytoplasmic glycosyltransferase assigned to the GT41 family in the CAZY 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. |

### Solubility Information

| | |
|---|---|
| Solubility | DMSO: 6.53 mg/mL (10 mM),<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|---|---|---|---|
| 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 |
| 50 mM | 0.0307 mL | 0.1535 mL | 0.3071 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

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.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481