

## Active Recombinant Human OGT protein, His-tagged

**Cat. No.** OGT-940H **Lot. No.** (See product label)

### SPECIFICATION

|                             |                                                                                                                                                                   |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>     | Recombinant Human OGT(Cys323-Glu1041) fused with His tag at C-terminal was expressed in E. coli.                                                                  |
| <b>Species</b>              | Human                                                                                                                                                             |
| <b>Source</b>               | E.coli                                                                                                                                                            |
| <b>ProteinLength</b>        | 323-1041 a.a.                                                                                                                                                     |
| <b>Predicted N Terminal</b> | Cys323                                                                                                                                                            |
| <b>Form</b>                 | Supplied as a 0.2 µm filtered solution in Tris, NaCl and TCEP.                                                                                                    |
| <b>Bio-activity</b>         | Measured by its ability to transfer GlcNAc from UDP-GlcNAc to peptide OGT substrate. The specific activity is >25 pmol/min/µg.                                    |
| <b>Molecular Mass</b>       | Predicted Molecular Mass: 81 kDa;SDS-PAGE: 70 kDa, reducing conditions                                                                                            |
| <b>Endotoxin</b>            | <1.0 EU per 1 µg of the protein by the LAL method.                                                                                                                |
| <b>Purity</b>               | >80%, by SDS-PAGE under reducing conditions and visualized by Colloidal Coomassie® Blue stain at 5 µg per lane                                                    |
| <b>Storage</b>              | Avoid repeated freeze-thaw cycles.6 months from date of receipt, -20 to -70 centigrade as supplied.3 months, -20 to -70 centigrade under sterile conditions after |

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opening.

## GENE INFORMATION

**Gene Name** OGT O-linked N-acetylglucosamine (GlcNAc) transferase [ Homo sapiens (human) ]

**Official Symbol** OGT

**Synonyms**

OGT; HRNT1; O-GLCNAC; O-linked N-acetylglucosamine (GlcNAc) transferase; UDP-N-acetylglucosamine--peptide N-acetylglucosaminyltransferase 110 kDa subunit; O-GlcNAc transferase p110 subunit; O-GlcNAc transferase subunit p110; O-linked N-acetylglucosamine transferase 110 kDa subunit; UDP-N-acetylglucosamine:polypeptide-N-acetylglucosaminyl transferase; uridinediphospho-N-acetylglucosamine:polypeptide beta-N-acetylglucosaminyl transferase; O-linked N-acetylglucosamine (GlcNAc) transferase (UDP-N-acetylglucosamine:polypeptide-N-acetylglucosaminyl transferase); EC 2.4.1.255

**Gene ID** 8473

**mRNA Refseq** NM\_181672

**Protein Refseq** NP\_858058

**MIM** 300255

**UniProt ID** O15294

**Chromosome Location** Xq13

**Pathway** Other types of O-glycan biosynthesis

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**Function**

acetylglucosaminyltransferase activity; enzyme activator activity; contributes\_to  
histone acetyltransferase activity (H4-K16 specific)

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