

Recombinant Human OGT Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. OGT-6608H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	OGT MS Standard C13 and N15-labeled recombinant protein (NP_858059) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a glycosyltransferase that catalyzes the addition of a single N-acetylglucosamine in O-glycosidic linkage to serine or threonine residues. Since both phosphorylation and glycosylation compete for similar serine or threonine residues, the two processes may compete for sites, or they may alter the substrate specificity of nearby sites by steric or electrostatic effects. The protein contains multiple tetratricopeptide repeats that are required for optimal recognition of substrates. Alternatively spliced transcript variants encoding distinct isoforms have been found for this gene.
Molecular Mass	115.5 kDa
AA Sequence	MASSVGNVADSTGLAELAHREYQAGDFEAAERHCMQLWRQEPDNTGVLLLLSSIHF QCRRLDRSAHFSTLAIKQNPLLA EAYSNLGNVYKERGQLQE AIEHYRHALRLKPDFID GYINLAAALVAAGDMEGAVQAYVSALQYNPDLYCVRSDLGNLLKALGRLEEAKACYL KAIETQPNFAVAWSNLGCVFNAQGEIWLAIHHFEKAVTLDPNFLDAYINLGNVLKEAR IFDRAVAAYLRALSLSPNHAVVHGNLACVYYEQGLIDL AIDTYRRAIELQPHFPDAYC

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NLANALKEKGSVAEAEDCYNTALRLCPTHADSLNNLANIKREQNIEEAVRLYRKAL
 EVFPEFAAAHSNLA SVLQQQGLQEALMHYKEAIRISPTFADAYSNMGNTLKEMQD
 VQGALQCYTRAIQINPAFADAHSNLA SIHKDSGNIPEAIASYRTALKLKPDPDAYCNL
 AHCLQIVCDWTDYDERMKKLVSIVADQLEKNRLPSVHPHHSMLYPLSHGFRKAI AER
 HGNLCLDKINV LHKPPYEH PKDLKLS DGRLRVGYVSSDFGNHPTSHLMQSIPGMHN
 PDKFEVFCYALSPDDGTNFRVKVMAE ANHFIDLSQIPCN GKAADRIHQDGIHILVNMN
 GYTKGARNELFALRPAPIQAMWLGYPGTSGALFMDYIITDQETSPA EVAEQYSEKLA
 YMPHTFFIGDHANMFPHLKKKAVIDFKSNGHIYDN RIVLNGIDLKAFDLSLPDVKIVKM
 KCPDGGDNADSSNTALNMPVIPMNTIAEAVIEMINRGQIQITINGFSISNGLATTQINN
 KAATGEEVPRTIIVTTRSQYGLPEDAIVYCNFNQLYKIDPSTLQMWANILKRV PNSVL
 WLLRFP AVGEPNIQQYA QNMGLPQNRIIFSPVAPKEEHVRRGQLADVCLDTPLCNG
 HTTGM DVLWAGTPMVTMPGETLASRVAASQLTCLGCLELIAKNRQEYEDIAVKLGT
 DLEYLKKVRGKVWKQRIS SPLFNTKQYTMELERLYLQMWEHYAAGNKP DHMIKPVE
 VTESASGPTRTRRLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

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

Official Symbol OGT

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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_181673

Protein Refseq

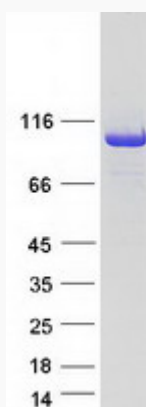
NP_858059

MIM

300255

UniProt ID

O15294

SDS-PAGE


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