

Recombinant Full Length Human OGT Protein, C-Flag-tagged

Cat. No. OGT-1093HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human OGT Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	116.7 kDa
AA Sequence	MASSVGNVADSTEPTKRMLSFQGLAELAHREYQAGDFEAAERHCMQLWRQEPDN TGVLLLLSSIHFCRR LDRSAHFSTLAIKQNPLLA EAYSNLGNVYKERGQLQEAI EHY RHALRLKPDFIDGYINLAAALVAAGDME GAVQAYVSALQYNPDLYCVRSDLGNLLKA LGRLEEAKACYLKAIETQPNFAVAWSNLGCVFNAQGEIWL A IHHFEKAVTLDPNFLD AYINLGNVLKEARIFDRAVAAYLRALS LSPNHAVVHGNLACVYYEQGLIDL AID TYRR

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AIELQPHFPDAYCNLANALKEKGSVAEAEDCYNTALRLCPTHADSLNNLANIKREQG
 NIEEAVRLY RKALEVFPEFAAAHSNLASVLQQQGKLQEALMHYKEAIRISPTFADAY
 SNMGNTLKEMQDVQGALQCYTR AIQINPAFADAHSNLASIHKDSGNIPEAIASYRTA
 LKLKPDFPDAYCNLAHCLQIVCDWTDYDERMKKLV SIVADQLEKNRLPSVHPHSM
 LYPLSHGFRKAIAERHGNLCLDKINVLHKPPYEHPKDLKLSDGRLRVGY VSSDFGNH
 PTSHLMQSIPGMHNPDKFEVFCYALSPDDGTNFRVKVMAEANHFIDLSQIPCNGKAA
 DRIHQ DGIHILVNMNGYTKGARNELFALRPAPIQAMWLGYPGTSGALFMDYIITDQE
 TSPAEEAEQYSEKLAYMP HTFFIGDHANMFPHLKKKAVIDFKSNGHIYDNRLVNGID
 LKAFLDSLDPVKIVKMKCPDGGDNADSSNT ALNMPVIPMNTIAEAVIEMINRGQIQITI
 NGFSISNGLATTQINNKAATGEEVPRTIIVTTRSQYGLPED AIVYCNFNQLYKIDPSTL
 QMWANILKRVPNNSVLWLLRFPVAVGEPNIQYQAQNMGLPQNRIIFSPVAPKEE HVRR
 GQLADVCLDTPLCNGHTTGMDVLWAGTPMVTMPGETLASRVAASQLTCLGCLELIA
 KNRQEYEDIA VKLGTDLLEYLKKVRGKVWKQRISPLFNTKQYTMELERLYLQMWEH
 YAAGNKPDHMIKPVEVTESASGPTRRRLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Protein Pathways	Metabolic pathways, O-Glycan biosynthesis

Full Length Full L.

GENE INFORMATION

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

Official Symbol OGT

Synonyms OGT1; HRNT1; MRX106; XLID106; HINCUT-1; O-GLCNAC

Gene ID 8473

mRNA Refseq NM_181672.3

Protein Refseq NP_858058.1

MIM 300255

UniProt ID O15294

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