

Product datasheet for TP324481

OGT (NM_181673) Human Recombinant Protein

Product data:

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| Product Type: | Recombinant Proteins |
| Description: | Recombinant protein of human O-linked N-acetylglucosamine (GlcNAc) transferase (UDP-N-acetylglucosamine:polypeptide-N-acetylglucosaminyl transferase) (OGT), transcript variant 2, 20 µg |
| Species: | Human |
| Expression Host: | HEK293T |
| Expression cDNA Clone or AA Sequence: | >RC224481 representing NM_181673 Red=Cloning site Green=Tags(s) |

MASSVGNVADSTGLAELAHREYQAGDFEAAERHCMQLWRQEPDNTGVLLLLSSIHFCRRLDRSAHFSTL
AIKQNPLLAAYSNLGNVYKERGQLQEAEHYRHALRLKPDFIDGYINLAAALVAAGDMEGAVQAYVSAL
QYNPDLYCVRSDLGNNLLKALGRLEEAKACYLKAJETQPNFAVAWSNLGCVFNAQGEIWLAIHHEKAVTL
DPNFLDAYINLGNVLKEARIFDRAVAAYLRALSLSPNHAWVHGNLACVYEQGLIDLDAIDTYRRAIELQP
HFPDAYCNLANALKEKGSVAEAEDCYNTALRLCPTHADSLNNLANIKREQGNIEEAVRLYRKALEVFPEF
AAHSNLSAVLQQQGLQEALMHYKEAIRISPTFADAYSNMGNLTKEMQDVQALQCYTRAIQINPAFAD
AHSNLSAIIHKDSGNIPEAIASYRTALKLKPDPDAYCNLAHCLQIVCDWTDYDERMKKLVSIVADQLEKN
RLPSVHPHSMYPLSHGFRKAIAERHGNLCLDKINVLHKPPYEHPKDLKLSDGRLRVGYVSSDFGNHPT
SHLMQSIPGMHNPDKFEVFCYALSPDDGTNFRVKVMAEANHFIDLSQIPCNGKAADRIHQDGIHILVNMN
GYTKGARNELFALRPAIQAMWLGYPGTSGALFMDYIITDQETSPAEEAEQYSEKLAYMPHTFFIGDHAN
MFPHLKKKAVIDFKSNGHIYDNRIVLNGIDLKAFDLSLPVKIVKMKCPDGGDNADSSNTALNMPVPMN
TIAEAVIEMINRGQIQITINGFSISNGLATTQINNKAATGEEVPTIIVTTRSQYGLPEDAIVYCNFNQL
YKIDPSTLQMWANILKRVNSVLWLLRFAVGEPNIQQAQNMGLPQNRIIFSPVAPKEEHVRRGQLADV
CLDTPLCNGHTTGMDVLWAGTPMVTMPGETLASRVAASQLTCLGCLELIAKNRQEYEDIAVKLGTDLEYL
KKVRGKVVWQRISPLFNTKQYTMELERLYLQMWHEYAAGNKPDMIKPVEVTESA

SGPTRTRRLEQKLISEEDLAANDILDYKDDDDKV

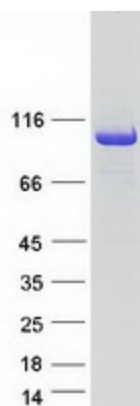
| | |
|----------------|---|
| Tag: | C-Myc/DDK |
| Predicted MW: | 115.5 kDa |
| Concentration: | >0.05 µg/µL as determined by microplate BCA method |
| Purity: | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| Buffer: | 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol |



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| Preparation: | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps. |
| Note: | For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process. |
| Storage: | Store at -80°C. |
| Stability: | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |
| RefSeq: | NP_858059 |
| Locus ID: | 8473 |
| UniProt ID: | O15294 |
| RefSeq Size: | 5445 |
| Cytogenetics: | Xq13.1 |
| RefSeq ORF: | 3108 |
| Synonyms: | HINCUT-1; HRNT1; MRX106; O-GLCNAC; OGT1 |
| Summary: | 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. [provided by RefSeq, Oct 2009] |
| Protein Families: | Druggable Genome |
| Protein Pathways: | Metabolic pathways, O-Glycan biosynthesis |

Product images:



Coomassie blue staining of purified OGT protein (Cat# TP324481). The protein was produced from HEK293T cells transfected with OGT cDNA clone (Cat# [RC224481]) using MegaTran 2.0 (Cat# [TT210002]).