

## Product datasheet for PH324481

### OGT (NM\_181673) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	OGT MS Standard C13 and N15-labeled recombinant protein (NP_858059)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC224481
Predicted MW:	115.5 kDa
Protein Sequence:	>RC224481 representing NM_181673 Red=Cloning site Green=Tags(s)

MASSVGNVADSTGLAELAHREYQAGDFEAAERHQMQLWRQEPDNTGVLLLLSSIHQCRRLDRSAHFSTL  
AIKQNPLLAEAYSNLGNVYKERGQLQEAIHYRHALRLKPDFIDGYINLAAALVAAGDMEGAVQAYVSAL  
QYNPDLYCVRSDLGNLLKALGRLEEAKACYLKAJETQPNFAVAVSNLGCVFNAQGEIWLAIHHFEKAVTL  
DPNFDLAYINLGNVLKEARIIDRAVAAYLRALSLSPNHAVVHGNLACVYVEQGLIDLAIDTYRRAIELQP  
HFPDAYCNLANALKEKGSVAEAEDCYNTALRLCPTHADSLNLANIKREQGNIEEAVRLYRKALEVFPEF  
AAHSNLA SVLQQQKQLQEALMHYKEAIRISPTFADAYSNMGNTLKEMQDVQOGALQCYTRAIQINPAFAD  
AHSNLA SIHKDSGNIPEIASYRTALKLPDFPDAYCNLAHCLQIVCDWTDYDERMKKLVSI VADQLEKN  
RLPSVHPHSMYLPLSHGFRKAI AERHGNLCLDKINVLHKPPYEHKDLKLSDGRLRVGYVSSDFGNHPT  
SHLMQSIIPGMHNPDKFEVFCYALSPDDGTNFRVKVMAEANHFDLSQLPCNGKAADRIHQDGIHILVNMN  
GYTKGARNELFALRPAPIQAMWLGYPGTSGALFMDYIITDQETSPA EAVAEQYSEKLAYMPHTFFIGDHAN  
MFPHLKKKAVIDFKSNGHIYDNRIVLNGIDLKAFLDLSLPDVKIVKMKCPDGGDNADSSNTALNMPVIPMN  
TIAEAVIEMINRQIQITINGFISNGLATTQINNKAATGEEVPTIIVTTRSQYGLPEDAIVVCNFNQL  
YKIDPSTLQMWANILKRVPNVSLWLLRFPVAGPEPNIQQYAQNMGLPQNRIFSPVAPKEEHVRRGQLADV  
CLDTPLCNGHTTGMDVLWAGTPMVTMPGETLASRVAASQLTCLGCELEIAKNRQEYEDIAVKLGTDLLEYL  
KKVRGKVKQRIS SPLFNTKQYTMELERLYLQWWEHYAAGNKPDHMIKPVEVTESA

SGPTRRRLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.



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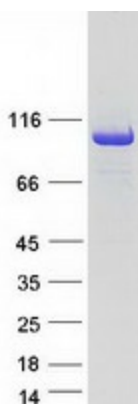
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<a href="#">NP_858059</a>
RefSeq Size:	5445
RefSeq ORF:	3108
Synonyms:	HINCUT-1; HRNT1; MRX106; O-GLCNAC; OGT1
Locus ID:	8473
UniProt ID:	<a href="#">O15294</a>
Cytogenetics:	Xq13.1

**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]).