

# Recombinant Human GALNT1 Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** GALNT1-5487H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| <b>Product Overview</b> | GALNT1 MS Standard C13 and N15-labeled recombinant protein (NP_065207) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Description</b>      | This gene encodes a member of the UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase (GalNAc-T) family of enzymes. GalNAc-Ts initiate mucin-type O-linked glycosylation in the Golgi apparatus by catalyzing the transfer of GalNAc to serine and threonine residues on target proteins. They are characterized by an N-terminal transmembrane domain, a stem region, a luminal catalytic domain containing a GT1 motif and Gal/GalNAc transferase motif, and a C-terminal ricin/lectin-like domain. GalNAc-Ts have different, but overlapping, substrate specificities and patterns of expression. Transcript variants derived from this gene that utilize alternative polyA signals have been described in the literature. |
| <b>Molecular Mass</b>   | 64 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>AA Sequence</b>      | MRKFAYCKVVLATSLIWVLLDMFLLLYFSECNKCDEKKERGLPAGDVLEPVQKPHEG<br>PGEMGKPVVIPKEDQEKMKEMFKINQFNLMASEMIALNRSPLDVRLEGCKTKVYPD<br>NLPTTSVVIVFHNEAWSTLLRTVHSVINRSPRHMIEEIVLVDDASERDFLKRPLESYVK<br>KLKVPVHVIRMEQRSGILIRARLKGAAVSKGQVITFLDAHCECTVGWLEPLLARIKHDR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

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RTVVCPIIDVISDDTFEYMAGSDMTYGGFNWKLNFRWYPVPQREMDRRKGDRTL PV  
 RTPTMAGGLFSIDRDYFQEIGTYDAGMDIWGGENLEISFRIWQCGGTLEIVTCSHVG  
 HVFRKATPYTFPGGTGQIINKNNRRLAEVWMDEFKNFFYIISPGVTKVDYGDISSRVG  
 LRHKLQCKPFSWYLENIYPDSQIPRHYFSLGEIRNVETNQCLDNMARKENKVGIFN  
 CHGMGGNQVFSYTANKEIRTDLCLDVSKLNGPVTMLKCHHLKGNQLWEYDPVKL  
 TLQHVNSNQCLDKATEEDSQVPSIRDCNGSRSQQWLLRNVTLP EIFTRTRPLEQKLI  
 SEEDLAANDILDYKDDDDKV

**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** GALNT1 polypeptide N-acetylgalactosaminyltransferase 1 [ Homo sapiens (human) ]

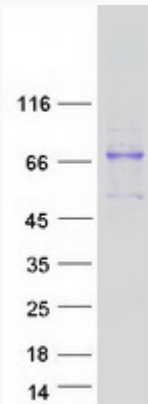
**Official Symbol** GALNT1

**Synonyms** GALNT1; UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 1 (GalNAc-T1); polypeptide N-acetylgalactosaminyltransferase 1; GalNAc T1; protein UDP acetylgalactosaminyltransferase 1; pp-GaNTase 1; GalNAc transferase 1; polypeptide GalNAc transferase 1; protein-UDP acetylgalactosaminyltransferase 1; UDP-GalNAc:polypeptide N-acetylgalactosaminyltransferase 1; GALNAC-T1;

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|----------------|-------------------------------------------------------------------------------------|
| Gene ID        | 2589                                                                                |
| mRNA Refseq    | NM_020474                                                                           |
| Protein Refseq | NP_065207                                                                           |
| MIM            | 602273                                                                              |
| UniProt ID     | Q10472                                                                              |
| SDS-PAGE       |  |