

Recombinant Full Length Human GALNT4 Protein, GST-tagged

Cat. No. GALNT4-5267HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human GALNT4 full-length ORF (AAH36390, 40 a.a. - 578 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	40-578 amino acids
Description	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. In vitro, the encoded protein can complement other GalNAc-Ts in the complete O-glycosylation of the mucin-1 tandem repeat and can O-glycosylate the P-selectin glycoprotein ligand-1 molecule. The coding region of this gene is contained within a single exon. [provided by RefSeq]
Molecular Mass	85.03 kDa
AA Sequence	RARELGSRRLSGLQKNTEDLSRPLYKKPPADSRALGEWGWKASKLQLNEDELKQQE ELIERYAINIYLSDRISLHRHIEDKRMYECKSQKFNYRTLPTTSVIIAFYNEAWSTLLRTI

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HSVLETSPAVLLKEIILVDDLSDRVYLKTQLETYISNLDRVRLIRTNKREGLVRARLIGA
TFATGDVLTFLDCHCECNSGWLEPLLERIGRDETAVVCVIDTIDWNTFEFYMQIGE
PMIGGFDWRLTFQWHSVPKQERDRRISRIDPIRSPTMAGGLFAVSKKYFQYLGTYD
TGMEVWGGENLELSFRVWQCGGKLEIHPCSHVGHVFPKRAPYARPNFLQNTARAA
EVWMDEYKEHFYNRNPPARKEAYGDISERKLLRERLRCKSFDWYLKNVFPNLHVPE
DRPGWHGAIRSRGISSECLDYNPDNNPTGANLSLFGCHGQGGNQFFEYTSNKEIR
FNSVTELCAEVPEQKNYVGMQNCPKDGFVPANIIWHFKEDGTIFHPHSGLCLSAYR
TPEGRPDVQMRTCDALDKNQIWSFEK

Applications

Enzyme-linked Immunoabsorbent Assay
Western Blot (Recombinant protein)
Antibody Production
Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name

GALNT4 UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylglucosaminyltransferase 4 (GalNAc-T4) [Homo sapiens]

Official Symbol

GALNT4

Synonyms

GALNT4; UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylglucosaminyltransferase 4 (GalNAc-T4); polypeptide N-acetylglucosaminyltransferase 4; GalNAc T4; pp-GaNTase 4; polypeptide GalNAc transferase 4; protein-UDP acetylglucosaminyltransferase 4; UDP-

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GalNAc:polypeptide N-acetylgalactosaminyltransferase 4; GALNACT4; GALNAC-T4;
FLJ93314;

Gene ID 8693

mRNA Refseq NM_003774

Protein Refseq NP_003765

MIM 603565

UniProt ID Q8N4A0

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