

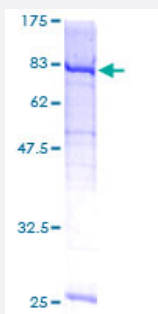
Full-Length

GALNT4 (Human) Recombinant Protein (P01)

Catalog # H00008693-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human GALNT4 full-length ORF (AAH36390, 40 a.a. - 578 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

RARELGSRRLSGLQKNTEDLSRPLYKKPPADSRALGEWGKASKLQLNEDELKQQEELIERYAINIY
LSDRISLHRHIEDKRMYECKSQKFNYRTLPTTSVIAFYNEAWSTLLRTIHSVLETSPAVLLKEILVDD
LSDRVYLKTQLETYISNLDRVRLIRTNKREGLVRARLIGATFATGDVLTFLDCHCECNSGWLEPLLE
RIGRDETAVVCPVIDTIDWNTFEFYMQIGEPMIGGFDWRLTFQWHSVPKQERDRRISRIDPIRSPTM
AGGLFAVSKKYFQYLGTYDTGMEVWGGENLELSFRVWQCGGKLEIHPCSHVGHVFPKRAPYAR
PNFLQNTARAAEVWMDEYKEHFYNRNPPARKEAYGDISERKLLRERLRCKSFDWYLNKVFPNLH
VPEDRPGWHGAIIRSGISSECLDYNPDNNTGANLSLFGCHGQGGNQFFEYTSNKEIRFNSVTE
LCAEVPEQKNYVGMQNCPKDGFVPANIMWHFKEDGTIFPHSGLCLSAYRTPEGRPDVQMRTC
DALDKNQWSFEK

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

85.03

Interspecies Antigen Sequence

Mouse (92); Rat (92)

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

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

Gene Info — GALNT4

Entrez GeneID	8693
GeneBank Accession#	BC036390
Protein Accession#	AAH36390
Gene Name	GALNT4
Gene Alias	GALNAC-T4, GalNAcT4
Gene Description	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 4 (GalNAc-T4)
Omim ID	603565
Gene Ontology	Hyperlink

Gene Summary

This gene encodes a member of the UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylglucosaminyltransferase (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]

Other Designations

GalNAc transferase 4|UDP-GalNAc: polypeptide N-acetylgalactosaminyltransferase 4|polypeptide N-acetylgalactosaminyltransferase 4|protein-UDP acetylgalactosaminyltransferase 4

Pathway

- [Metabolic pathways](#)
- [O-Glycan biosynthesis](#)

Disease

- [Coronary Artery Disease](#)