GALNT7 Recombinant Protein

PRODUCT OVERVIEW

Product Name	GALNT7, Recombinant Protein
Full Product Name	GALNT7 Protein, Human, Recombinant (His Tag)
Product Gene Name	GALNT7 recombinant protein
Product Synonym Names	Human GALNT7 Protein (His Tag); GALNAC-T7 Protein, Human; GalNAcT7 Protein, Human; polypeptide N-acetylgalactosaminyltransferase 7
Sequence	Pro30-Val6 57
Host	HEK293 Cells
Form/Format	Lyophilized from sterile 50mM Tris, 150mM NaCl, pH7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hard copy of CoA.
Purity/Purification	>85% as determined by SDS-PAGE
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice.
Matching Pairs	Antibody: GALNT7 (MBS8125201) Immunogen: GALNT7 (MBS8121827)
Molecular Weight	75,389 Da
OMIM	605005
3D Structure	ModBase 3D Structure for Q86SF2
Species	Human
Endotoxin	<1.0EU per ug protein as determined by the LAL method.
Predicted N Terminal	Pro 30
Tag	C-His
Protein Construction	A DNA sequence encoding the human GALNT7 (NP_059119.2)(Pro30-Val657) was expressed with a polyhistidine tag at the C-terminus.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.
Related Product Information for GALNT7 recombinant protein	Background: GalNAc-transferase-7 (GALNT7) is essential for the regulation of cell proliferation and has been implicated in tumorigenesis. Colorectal cancer (CRC) arises in a multistep molecular network process, which is from either discrete genetic perturbation or epigenetic dysregulation. GALNT7 acts as a glycosyltransferase in protein O-glycosylation, involving in the occurrence and development of CRC. GALNT7 silencing significantly attenuated the proliferation, clonogenicity and migration of LSCC cells and induced their cycling arrest. miR-30e may function as tumor suppressors in cervical cancer through downregulation of GALNT7. Both miR-30e and its novel target, GALNT7, may play an important role in the process of cervical cancer.

Other Notes	Small volumes of GALNT7 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for GALNT7 purchase	MBS8121827 is a recombinant protein targeting GALNT7. Also known as GALNT7 Protein, Human, Recombinant (His Tag). Host: HEK293 Cells.



SDS-Page of GALNT7 recombinant protein

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GALNT7. It may not necessarily be applicable to this product.

NCBI GI #	157502212
NCBI GeneID	51809
NCBI Accession #	NP_059119.2
UniProt Primary Accession #	Q86SF2
UniProt Secondary Accession #	Q7Z5W7; Q9UJ28; B3KQU3
UniProt Related Accession #	Q86SF2
GenBank Nucleotide #	NM_017423.2
NCBI Official Full Name	N-acetylgalactosaminyltransferase 7
NCBI Official Synonym Full Names	polypeptide N-acetylgalactosaminyltransferase 7
NCBI Official Symbol	GALNT7
NCBI Official Synonym Symbols	GalNAcT7; GALNAC-T7
UniProt Protein Name	N-acetylgalactosaminyltransferase 7
UniProt Synonym Protein Names	Polypeptide GalNAc transferase 7; GalNAc-T7; pp-GaNTase 7; Protein-UDP acetylgalactosaminyltransferase 7; UDP-GalNAc:polypeptide N-acetylgalactosaminyltransferase 7
Protein Family	N-acetylgalactosaminyltransferase
UniProt Gene Name	GALNT7
UniProt Synonym Gene Names	GalNAc-T7; pp-GaNTase 7
UniProt Entry Name	GALT7_HUMAN
NCBI Protein Information	N-acetylgalactosaminyltransferase 7; pp-GaNTase 7; polypeptide GalNAc transferase 7; protein-UDP acetylgalactosaminyltransferase 7; UDP-GalNAc:polypeptide N-acetylgalactosaminyltransferase 7; UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactos

NCBI Summary for GALNT7	This gene encodes GalNAc transferase 7, a member of the GalNAc-transferase family. The enzyme encoded by this gene controls the initiation step of mucin-type O-linked protein glycosylation and transfer of N-acetylgalactosamine to serine and threonine amino acid residues. This enzyme is a type II transmembrane protein and shares common sequence motifs with other family members. Unlike other family members, this enzyme shows exclusive specificity for partially GalNAc-glycosylated acceptor substrates and shows no activity with non-glycosylated peptides. This protein may function as a follow-up enzyme in the initiation step of O-glycosylation. [provided by RefSeq, Jul 2008]
UniProt Comments for GALNT7	GALNT7: a glycopeptide transferase involved in O-linked oligosaccharide biosynthesis, which catalyzes the transfer of an N-acetyl-D-galactosamine residue to an already glycosylated peptide. A single-pass type II membrane protein that localizes to the Golgi apparatus membrane. In contrast to other proteins of the family, it does not act as a peptide transferase that transfers GalNAc onto serine or threonine residue on the protein receptor, but instead requires the prior addition of a GalNAc on a peptide before adding additional GalNAc moieties. Protein type: EC 2.4.1.-; Glycan Metabolism - O-glycan biosynthesis; Transferase; Membrane protein, integral Chromosomal Location of Human Ortholog: 4q31.1 Cellular Component: Golgi membrane; membrane; integral to membrane Molecular Function: metal ion binding; polypeptide N-acetylgalactosaminyltransferase activity; carbohydrate binding Biological Process: protein amino acid O-linked glycosylation; cellular protein metabolic process; O-glycan processing; carbohydrate metabolic process; post-translational protein modification
Research Articles on GALNT7	**1.** The study of miR-34a, miR-34c and its novel target, GALNT7, may serve as novel potential makers for laryngeal squamous cell carcinoma therapy.
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