Polypeptide N-Acetylgalactosaminyltransferase 1 (GALNT1) Rat Recombinant Protein

PRODUCT OVERVIEW

Product Name	Polypeptide N-acetylgalactosaminyltransferase 1 (Galnt1), Recombinant Protein
Full Product Name	Recombinant Rat Polypeptide N-acetylgalactosaminyltransferase 1 (Galnt1), partial
Product Gene Name	Galnt1 recombinant protein
Product Synonym Gene Name	Galnt1
Sequence	MRKFAYCKVV LATSLVWVLL DMFLLLYFSE CNKCEEKKER GLPAGDVLEL VQKPHEGPGE MGKPVVIPKE DQEKMKEMFK INQFNLMASE MIAFNRSLPD VRLEGCKTKV YPDSLPTTSV VIVFHNEAWS TLLRTVHSVI NRSPRHMIEE IVLVDDASER DFLKRPLESY VKKLKVPVHV IRMEQRSGLI RARLKGAAVS KGQVITFLDA HCECTVGWLE PLLARIKHDR RTVVCPIIDV ISDDTFEYMA GSDMTYGGFN WKLNFRWYPV PQREMDRRKG DRTLPVRTPT MAGGLFSIDR DYFQEIGTYD AGMDIWGGEN LEISFRIWQC GGTLEIVTCS HVGHVFRKAT PYTFPGGTGQ IINKNNRRLA EVWMDEFKNF FYIISPGVTK VDYGDISSRV GLRHKLQCKP FSWYLENIYP DSQIPRHYFS LGEIRNVETN QCLDNMARKE NEKVGIFNCH GMGGNQVFSY TANKEIRTDD LCLDVSKLNG PVTMLKCHHL KGNQLWEYDP VKLTLQHVNS NQCLDKATEE DSQVPSIRDC TGSRSQQWLL RNVTLPEIF
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	64,229 Da
Sequence Positions	1-559
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q10473
Species	Rat
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Galnt1 recombinant protein	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 lumenal 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.
Other Notes	Small volumes of Galnt1 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 Galnt1 purchase	MBS1311083 is a recombinant protein targeting Galnt1. Also known as Recombinant Rat Polypeptide N-acetylgalactosaminyltransferase 1 (Galnt1), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Galnt1. It may not necessarily be applicable to this product.

NCBI GI #	13242273
NCBI GeneID	79214
NCBI Accession #	NP_077349.1
UniProt Primary Accession #	Q10473
UniProt Related Accession #	Q10473
GenBank Nucleotide #	NM_024373.1
NCBI Official Full Name	polypeptide N-acetylgalactosaminyltransferase 1
NCBI Official Synonym Full Names	polypeptide N-acetylgalactosaminyltransferase 1
NCBI Official Symbol	Galnt1
UniProt Protein Name	Polypeptide N-acetylgalactosaminyltransferase 1
UniProt Synonym Protein Names	Polypeptide GalNAc transferase 1; GalNAc-T1; pp-GaNTase 1
Protein Family	Polypeptide N-acetylgalactosaminyltransferase
UniProt Gene Name	Galnt1
UniProt Synonym Gene Names	GalNAc-T1; pp-GaNTase 1
NCBI Protein Information	polypeptide N-acetylgalactosaminyltransferase 1
NCBI Summary for Galnt1	catalyzes the transfer of N-acetylgalactose to protein serine and threonine residues in the first step of O-glycan biosynthesis [RGD, Feb 2006]
UniProt Comments for Galnt1	Catalyzes the initial reaction in O-linked oligosaccharide biosynthesis, the transfer of an N-acetyl-D-galactosamine residue to a serine or threonine residue on the protein receptor. Has a broad spectrum of substrates for peptides such as EA2, Muc5AC, Muc1a, Muc1b and Muc7.
Research Articles on Galnt1	**1.** the GalNAc-T1 lectin domain plays a critical role in enzymatic activity, and GalNAc-T1 has two activities distinguished by their sensitivities to inhibition with free GalNAc
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