

Recombinant Human GALNT1

Cat. No. GALNT1-27302TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human GALNT1, isoform 2 with N terminal proprietary tag. Predicted MW 37.62 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	105 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. Transcript variants derived from this gene that utilize alternative polyA signals have been described in the literature.
Molecular Weight	37.620kDa inclusive of tags
Tissue specificity	Widely expressed. Expressed in all tissues tested.
Form	Liquid

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Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	MRKFAYCKVVLATSLIWVLLDMFLLLYFSECNKCDEKKER GLPAGDVLEPVQKPHE GPGEMGKPVVIPKEDQEKMKEMFK INQFNLMASEMIALNRSLPDVRLEG
Sequence Similarities	Belongs to the glycosyltransferase 2 family. GalNAc-T subfamily.Contains 1 ricin B-type lectin domain.

GENE INFORMATION

Gene Name	GALNT1 UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 1 (GalNAc-T1) [Homo sapiens]
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;
Gene ID	2589
mRNA Refseq	NM_020474
Protein Refseq	NP_065207

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MIM	602273
Uniprot ID	Q10472
Chromosome Location	18q12.1
Pathway	Metabolic pathways, organism-specific biosystem; Mucin type O-Glycan biosynthesis, organism-specific biosystem; Mucin type O-Glycan biosynthesis, conserved biosystem; O-glycan biosynthesis, mucin type core, organism-specific biosystem; O-glycan biosynthesis, mucin type core, conserved biosystem;
Function	manganese ion binding; polypeptide N-acetylgalactosaminyltransferase activity; sugar binding; transferase activity, transferring glycosyl groups;

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