

Recombinant Human GALNT1 Protein (AA 47-559), N-6×His/GFP tagged

Cat. No. GALNT1-28H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human GALNT1 Protein (AA 47-559) with N-6×His/GFP tag was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	AA 47-559
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 Mass	~92 kDa
AA Sequence	VLEPVQKPHEGPGEMGKPVVIPKEDQEKMKEMFKINQFNLMASEMIALNRSLPDVRL LEGCKTKVYPDNLPTTSVVIVFHNEAWSTLLRTVHSVINRSPRHMIEEIVLVDDASER DFLKRPLESYVKKLKVPVHVIRMEQRSGILIRARLKGA AVSKGQVITFLDAHCECTVG

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WLEPLLARIKHDRRTVVCPIIDVISDDTFEYMAGSDMTYGGFNWKLNFRWYPVPQR
EMDRRKGDRTLPVRTPTMAGGLFSIDIDYFQEIGTYDAGMDIWGGENLEISFRIWQC
GGTLEIVTCSHVGHVFRKATPYTFPGGTGQIINKNNRRLAEVWMDEFKNFFYIISPGV
TKVDYGDISSRVGLRHLKLQCKPFSWYLENIYPDSQIPRHYFSLGEIRNVETNQCLDN
MARKENEKVGIFNCHGMGGNQVFSYTANKEIRTDLCLDVSKLNGPVTMLKCHHLK
GNQLWEYDPVKLTQLQHVNSNQCLDKATEEDSQVPSIRDCNGSRSQQWLLRNVTLPEIF

Purity

>95%, by SDS-PAGE under reducing conditions and visualized by Coomassie Blue stain.

Stability

6 months if stored at -80 centigrade. Avoid repeated freeze thaws.

Concentration

1 mg/mL

Storage Buffer

Supplied as a 0.2 µm filtered solution in 20mM HEPES pH 7.0 and 100mM NaCl buffer, with 10% Glycerol.

Preservative

0.05 % NaN₃

Shipping

This product is shipped as 0.2µm filtered product on dry ice.

GENE INFORMATION

Gene Name

GALNT1 UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylglucosaminyltransferase 1 (GalNAc-T1) [Homo sapiens (human)]

Official Symbol

GALNT1

Synonyms

GALNT1; UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylglucosaminyltransferase 1 (GalNAc-T1); polypeptide N-

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acetylgalactosaminyltransferase 1; GalNAc T1; protein UDP
 acetylgalactosaminyltransferase 1; pp-GaNTase 1; GalNAc transferase 1; polypeptide
 GalNAc transferase 1; protein-UDP acetylgalactosaminyltransferase 1; UDP-
 GalNAc:polypeptide N-acetylgalactosaminyltransferase 1; GALNAC-T1;

Gene ID 2589

mRNA Refseq NM_020474

Protein Refseq NP_065207

MIM 602273

UniProt ID Q10472

SDS-PAGE

