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 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.
Molecular Mass	~92 kDa
AA Sequence	VLEPVQKPHEGPGEMGKPVVIPKEDQEKMKEMFKINQFNLMASEMIALNRSLPDVR LEGCKTKVYPDNLPTTSVVIVFHNEAWSTLLRTVHSVINRSPRHMIEEIVLVDDASER DFLKRPLESYVKKLKVPVHVIRMEQRSGLIRARLKGAAVSKGQVITFLDAHCECTVG

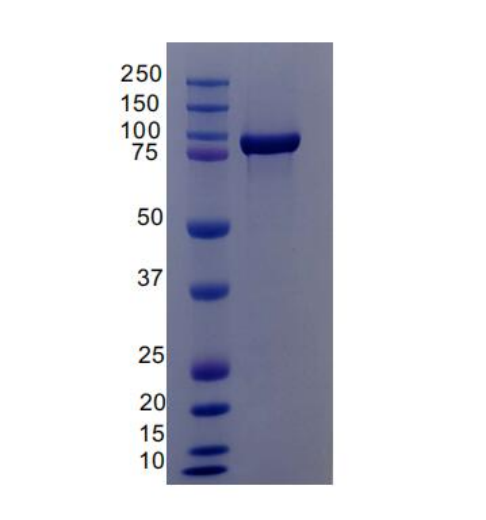
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45-1 Ramsey Road, Shirley, NY 11967, USA

	WLEPLLARIKHDRRTVVCPIIDVISDDTFEYMAGSDMTYGGFNWKLNFRWYPVPQR EMDRRKGDRTLPVRTPTMAGGLFSIDIDYFQEIGTYDAGMDIWGGENLEISFRIWQC GGTLEIVTCSHVGHVFRKATPYTFPGGTGQIINKNNRRLAEVWMDEFKNFFYIISPGV TKVDYGDISSRVGLRHKLQCKPFSWYLENIYPDSQIPRHYFSLGEIRNVETNQCLDN MARKENEKVGIFNCHGMGGNQVFSYTANKEIRTDDLCLDVSKLNGPVTMLKCHHLK GNQLWEYDPVKLTLQHVNSNQCLDKATEEDSQVPSIRDCNGSRSQQWLLRNVTLP EIF
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-acetylgalactosaminyltransferase 1 (GalNAc-T1) [Homo sapiens (human)]
Official Symbol	GALNT1
Synonyms	GALNT1; UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 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	

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