

Recombinant Human GCNT1

Cat. No. GCNT1-27452TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human GCNT1 with N-terminal proprietary tag. Predicted MW 73.15kDa.
Species	Human
Source	Wheat Germ
ProteinLength	428 amino acids
Description	This gene is a member of the beta-1,6-N-acetylglucosaminyltransferase gene family. It is essential to the formation of Gal beta 1-3(GlcNAc beta 1-6)GalNAc structures and the core 2 O-glycan branch. The gene coding this enzyme was originally mapped to 9q21, but was later localized to 9q13. Multiple alternatively spliced variants, encoding the same protein, have been identified.
Molecular Weight	73.150kDa inclusive of tags
Tissue specificity	Highly expressed in activated T-lymphocytes and myeloid cells.
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl

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Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	MLRTLRRRLFSYPTKYYFMVLVLSLITFSVLRIHQKPEF VSVRHLELAGENPSSDIN CTKVLQGDVNEIQVKLEILTV KFKKRPRWTPDDYINMTSDCSSFIKRRKYIVEPLSK EEAE FPIAYSIVVHHKIEMLDRLRLAIYMPQNFYCIHVDTKSED SYLAAVMGIASCFS NVFVASRLESVVYASWSRVQADLNCM KDLYAMSANWKYLINLCGMDFPIKTNLEIV RKLKLLMGEN NLETERMPSHKEERWKKRYEVVNGKLTNTGTVMKLPLET PLFSG SAYFVVSREYVGYVLQNEKIQKLMWAQDTYSPDE YLWATIQRIVEPGSLPASHK YDLSDMQAVARFVKWQYFE GDVSKGAPYPPCDGVHVRVCIFGAGDLNWMLRKH HLFAN KFDVDVDLFAIQCLDEHLRHKALETCLKH
Sequence Similarities	Belongs to the glycosyltransferase 14 family.

GENE INFORMATION

Gene Name	GCNT1 glucosaminyl (N-acetyl) transferase 1, core 2 [Homo sapiens]
Official Symbol	GCNT1
Synonyms	GCNT1; glucosaminyl (N-acetyl) transferase 1, core 2; glucosaminyl (N acetyl) transferase 1, core 2 (beta 1,6 N acetylglucosaminyltransferase) , NACGT2; beta-1,3-galactosyl-O-glycosyl-glycoprotein beta-1,6-N-acetylglucosaminyltransferase; beta 1; 3 galact
Gene ID	2650
mRNA Refseq	NM_001097633
Protein Refseq	NP_001091102

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MIM	600391
Uniprot ID	Q02742
Chromosome Location	9q13
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	beta-1,3-galactosyl-O-glycosyl-glycoprotein beta-1,6-N-acetylglucosaminyltransferase activity; transferase activity, transferring glycosyl groups;

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