

Recombinant Human B3GNT1, GST-tagged

Cat. No. B3GNT1-10102H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human B3GNT1 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	66-415a.a.
Description	This gene encodes a member of the beta-1,3-N-acetylglucosaminyltransferase family. This enzyme is a type II transmembrane protein. It is essential for the synthesis of pol y-N-acetyllactosamine, a determinant for the blood group i antigen.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

GENE INFORMATION

Gene Name	B3GNT1 UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 1 [Homo sapiens]
Official Symbol	B3GNT1

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Synonyms	B3GNT1; UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 1; B3GNT6, UDP GlcNAc:betaGal beta 1,3 N acetylglucosaminyltransferase 6; N-acetyllactosaminide beta-1,3-N-acetylglucosaminyltransferase; B3GN T1; BETA3GNTI; iGAT; iGNT; iGnT; poly-N-acetyllactosamine extension enzyme; i-beta-1,3-N-acetylglucosaminyltransferase; beta-1,3-N-acetylglucosaminyltransferase bGnT-6; UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 6; B3GNT6; B3GN-T1;
Gene ID	11041
mRNA Refseq	NM_006876
Protein Refseq	NP_006867
MIM	605517
UniProt ID	O43505
Chromosome Location	11q13.2
Pathway	Glycosaminoglycan biosynthesis - keratan sulfate, organism-specific biosystem; Glycosaminoglycan biosynthesis - keratan sulfate, conserved biosystem; Glycosphingolipid biosynthesis - lacto and neolacto series, organism-specific biosystem; Glycosphingolipid biosynthesis - lacto and neolacto series, conserved biosystem; Metabolic pathways, organism-specific biosystem;
Function	N-acetyllactosaminide beta-1,3-N-acetylglucosaminyltransferase activity; transferase activity, transferring glycosyl groups;