

Recombinant Human B3GNT5, His-tagged

Cat. No. B3GNT5-10106H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human B3GNT5 protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose.
Species	Human
Source	E.coli
ProteinLength	C-term-343a.a.
Description	This gene encodes a member of the beta-1,3-N-acetylglucosaminyltransferase family. This enzyme is a type II membrane protein. It exhibits strong activity to transfer GlcNAc to glycolipid substrates and is identified as the most likely candidate for lactotriaosyl ceramide synthase. This enzyme is essential for the expression of Lewis X epitopes on glycolipids.
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 300mM Imidazole and 0.7% Sarcosyl, 15%glycerol.

GENE INFORMATION

Gene Name	B3GNT5 UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 5 [Homo sapiens]
------------------	---

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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

Official Symbol	B3GNT5
Synonyms	B3GNT5; UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 5; B3GN T5; beta3Gn T5; BGnT-5; lc3 synthase; beta-1,3-Gn-T5; lc(3)Cer synthase; lactotriaosylceramide synthase; beta-1,3-N-acetylglucosaminyltransferase 5; beta-1,3-N-acetylglucosaminyltransferase bGnT-5; beta 1,3 N-acetylglucosaminyltransferase Lc3 synthase; B3GN-T5; beta3Gn-T5;
Gene ID	84002
mRNA Refseq	NM_032047
Protein Refseq	NP_114436
UniProt ID	Q9BYG0
Chromosome Location	3q28
Pathway	Glycosphingolipid biosynthesis - lacto and neolacto series, organism-specific biosystem; Glycosphingolipid biosynthesis - lacto and neolacto series, conserved biosystem; Glycosphingolipid biosynthesis, lacto-series, LacCer => Lc4Cer, organism-specific biosystem; Glycosphingolipid biosynthesis, lacto-series, LacCer => Lc4Cer, conserved biosystem; Glycosphingolipid biosynthesis, neolacto-series, LacCer =>
Function	beta-galactosyl-N-acetylglucosaminylgalactosylglucosyl-ceramide beta-1,3-acetylglucosaminyltransferase activity; galactosyltransferase activity; lipopolysaccharide N-acetylglucosaminyltransferase activity; transferase activity, transferring glycosyl group

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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