

---

**Product Data Sheet**


---

Product Name: B3GNT2 Human  
 Cat. No.: GP21431  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	B3GNT2; B3GN-T2; B3GNT; B3GNT-2; B3GNT1; BETA3GNT;BGnT-2; BGNT2; N-acetyllactosaminide beta-1;3-N-acetylglucosaminyltransferase2; Beta-1;3-N-acetylglucosaminyltransferase 1; BGnT-1; Beta-1;3-Gn-T1;Beta3Gn-T1; Beta-1;3-galactosyltransferase 7; Beta-1;3-GalTase 7; Beta3Gal-T7;Beta3GalT7;b3Gal-T7; Beta-3-Gx-T7; beta-GlcNAcbeta-1;3-galactosyltransferase 7; betaGalbeta-1;3-N-acetylglucosaminyltransferase 2; BGnT-2; Beta-1;3-Gn-T2;Beta-1;3-N-acetylglucosaminyltransferase 2; Beta3Gn-T2;beta-N-acetylglucosamine beta-1;3-galactosyltransferase 7.		
Amino Acid Sequence	ADPKSSSQEKNGKGEVIIPK EKFWKISTPP EAYWNREQEK LNRQYNPILS MLTNQTGEAG RLSNISHLNY CEPDLRVTSVVTGFNNLPDR FKDFLLYLRC RNYSLIDQP DKCAKKPFL LAIKSLTPHF ARRQAIRESW GQESNAGNQTVVRVFLGQT PPEDNHPDLS DMLKFESEKH QDILMWNYRD TFFNLSLKEV LFLRWVSTSC PDTEFVFKGDDVFNTHHI LNYLNSLSKT KAKDLFIGDV IHNAGPHRDK KLKYYIPEVV YSGLYPPYAG GGGFLYSGHLALRLYHITDQ VHLYPIDVY TGMCLQKLGL VPEKHKGFR FDIEEKNKNN ICSYVDLMLV HSRKPQEMID IWSQLQSAHLKCHHHHHH.		
Formulation	B3GNT2 protein solution (0.5mg/ml) contains PhosphateBuffered Saline (pH 7.4) and 10% glycerol.		

**Introduction**

Beta-1,3-N-Acetylglucosaminyltransferase2 (B3GNT2) is a part of the beta-1,3-N-acetylglucosaminyltransferase family which takes part in the synthesis of poly-N-acetyllactosamine. B3GNT2 is a type II transmembrane protein which prefers the

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

---

---

## Product Data Sheet

---

substrate of lacto-N-neotetraose. B3GNT2 catalyzes the initiation and elongation of poly-N-acetyllactosamine chains and comprises the main polylactosamine synthase.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

B3GNT2 produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 375 amino acids (29-397 a.a.) and having a molecular mass of 43.5 kDa (Molecular size on SDS-PAGE will appear at approximately 40-57 kDa). B3GNT2 is expressed with a 6 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

**Caution: Product has not been fully validated for medical applications. For research use only.**

**Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com**

**Address: 10292 Central Ave. #205, Montclair, CA, USA**