

# Recombinant human B3GNT2 protein

Catalog Number: ATGP3402

## PRODUCT INFORMATION

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### Expression system

Baculovirus

### Domain

29-397aa

### UniProt No.

Q9NY97

### NCBI Accession No.

NP\_006568

### Alternative Names

N-acetylglucosaminide beta-1,3-N-acetylglucosaminyltransferase 2, B3GNT2, B3GN-T2, B3GNT, B3GNT-2, B3GNT1, BETA3GNT, BGnT-2, BGNT2, 3-galactosyltransferase 7, 3-GalTase 7, 3-Gn-T1, 3-Gn-T2, 3-N-acetylglucosaminyltransferase 1, 3-N-acetylglucosaminyltransferase 2, b3Gal-T7, B3GN2\_HUMAN, B3GNT,B3GNT2,Beta 1 3 galactosyltransferase 7,Beta-1,Beta-3-GxT7, Beta3Gal-T7, Beta3GalT7, Beta3Gn T1, Beta3Gn-T1, Beta3Gn-T2, Beta3GNT, BGnT-1, BGnT-2, UDP-Gal:beta-GlcNAc beta-1, UDP-galactose:beta-N-acetylglucosamine beta-1, UDP-GlcNAc:betaGal beta-1

## PRODUCT SPECIFICATION

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### Molecular Weight

43.5 kDa (375aa)

### Concentration

0.5mg/ml (determined by absorbance at 280nm)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

### Purity

> 90% by SDS-PAGE

### Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

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## BACKGROUND

### Description

B3GNT2, also known as N-acetyllactosaminide beta-1, 3-N-acetylglucosaminyltransferase 2, belongs to the beta-1, 3-N-acetylglucosaminyltransferase family. It is a type II transmembrane protein which prefers the substrate of lacto-N-neotetraose. It catalyzes the initiation and elongation of poly-N- acetyllactosamine chains. Recombinant human B3GNT2, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques

### Amino acid Sequence

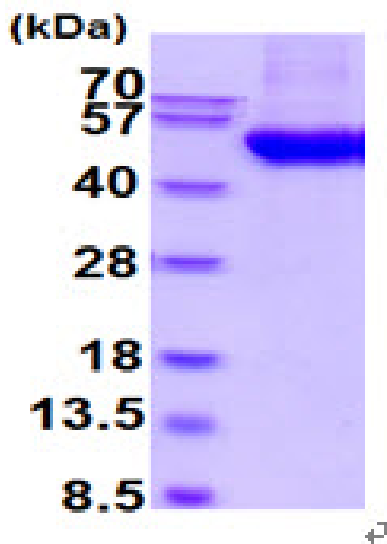
ADPKSSSQEK NGKGEVIIPK EKFWKISTPP EAYWNREQEK LNRQYNPILS MLTNQTGEAG RLSNISHLNY CEPDLRVTSV  
VTGFNNLPDR FKDFLLYLRC RNYSLIDQP DKCAKPFLL LAIKSLTPHF ARRQAIRESW GQESNAGNQT VVRVFLGQT  
PPEDNHPDLS DMLKFESEKH QDILMWNRYR TFFNLSLKEV LFLRWVSTSC PDTEFVFKGD DDVFNTHHI LNYLNSLSKT  
KAKDLFIGDV IHNAGPHRDK KLKYYIPEVV YSGLYPPYAG GGGFLYSGHL ALRLYHITDQ VHLYPIDDVY TGMCLQKLGL  
VPEKHKGFRF FDIEEKNNN ICSYVDLMLV HSRKQPQEMID IWSQLQSAHL KCHHHHHH

### General References

Seko A., et al. (2008) J Biol Chem. 283:33094-33100.  
Zhou D., et al. (1999) Proc Natl Acad Sci U S A. 96:406-411.

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)