

**B3GALNT1 Blocking Peptide (N-term)**  
Synthetic peptide  
Catalog # BP5364a

**Specification**

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**B3GALNT1 Blocking Peptide (N-term) - Product Information**

Primary Accession [O75752](#)  
Other Accession [O864U6](#), [NP\\_001033717.1](#), [NP\\_149358.1](#),  
[NP\\_149357.1](#), [NP\\_149359.1](#), [NP\\_003772.1](#)

**B3GALNT1 Blocking Peptide (N-term) - Additional Information**

Gene ID 8706

**Other Names**

UDP-GalNAc:beta-1, 3-N-acetylgalactosaminyltransferase 1, Beta-1, 3-GalNAc-T1, Beta-1, 3-galactosyltransferase 3, Beta-1, 3-GalTase 3, Beta3Gal-T3, Beta3GalT3, b3Gal-T3, Beta-3-Gx-T3, Galactosylgalactosylglucosylceramide beta-D-acetyl-galactosaminyltransferase, Globoside synthase, UDP-N-acetylgalactosamine:globotriaosylceramide beta-1, 3-N-acetylgalactosaminyltransferase, B3GALNT1, B3GALT3

**Target/Specificity**

The synthetic peptide sequence is selected from aa 53-64 of HUMAN B3GALNT1

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**B3GALNT1 Blocking Peptide (N-term) - Protein Information**

Name B3GALNT1 ([HGNC:918](#))

Synonyms B3GALT3

**Function**

Transfers N-acetylgalactosamine onto globotriaosylceramide (PubMed:<a href="http://www.uniprot.org/citations/10993897" target="\_blank">10993897</a>). Plays a critical role in preimplantation stage embryonic development (By similarity).

**Cellular Location**

Golgi apparatus membrane; Single-pass type II membrane protein

### Tissue Location

Higher expression in heart and brain, and to a lesser extent in lung, placenta, kidney and testis.  
Lower expression in liver, spleen and stomach. No expression in skeletal muscle

### B3GALNT1 Blocking Peptide (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

### B3GALNT1 Blocking Peptide (N-term) - Images

### B3GALNT1 Blocking Peptide (N-term) - Background

This gene is a member of the beta-1,3-galactosyltransferase (beta3GalT) gene family. This family encodes type II membrane-bound glycoproteins with diverse enzymatic functions using different donor substrates (UDP-galactose and UDP-N-acetylglucosamine) and different acceptor sugars (N-acetylglucosamine, galactose, N-acetylgalactosamine). The beta3GalT genes are distantly related to the Drosophila Brainiac gene and have the protein coding sequence contained in a single exon. The beta3GalT proteins also contain conserved sequences not found in the beta4GalT or alpha3GalT proteins. The carbohydrate chains synthesized by these enzymes are designated as type 1, whereas beta4GalT enzymes synthesize type 2 carbohydrate chains. The ratio of type 1:type 2 chains changes during embryogenesis. By sequence similarity, the beta3GalT genes fall into at least two groups: beta3GalT4 and 4 other beta3GalT genes (beta3GalT1-3, beta3GalT5). The encoded protein of this gene does not use N-acetylglucosamine as an acceptor sugar at all. Multiple transcript variants that are alternatively spliced in the 5' UTR have been described; they all encode the same protein. [provided by RefSeq].

### B3GALNT1 Blocking Peptide (N-term) - References

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