

**MGAT4B Blocking Peptide (N-Term)**

Synthetic peptide

Catalog # BP22002a

**Specification**

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**MGAT4B Blocking Peptide (N-Term) - Product Information**

Primary Accession

[Q9UQ53](#)**MGAT4B Blocking Peptide (N-Term) - Additional Information**

Gene ID 11282

**Other Names**

Alpha-1, 3-mannosyl-glycoprotein 4-beta-N-acetylglucosaminyltransferase B, 2.4.1.145, N-glycosyl-oligosaccharide-glycoprotein N-acetylglucosaminyltransferase IVb, GlcNAc-T IVb, GnT-IVb, N-acetylglucosaminyltransferase IVb, UDP-N-acetylglucosamine: alpha-1, 3-D-mannoside beta-1, 4-N-acetylglucosaminyltransferase IVb, MGAT4B

**Target/Specificity**

The synthetic peptide sequence is selected from aa 32-42 of HUMAN MGAT4B

**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.

**MGAT4B Blocking Peptide (N-Term) - Protein Information**Name MGAT4B ([HGNC:7048](#))**Function**

Glycosyltransferase that catalyzes the transfer of GlcNAc from UDP-GlcNAc to the GlcNAcbeta1-2Manalpha1-3 arm of the core structure of N-linked glycans through a beta1-4 linkage and participates in the production of tri- and tetra-antennary N-linked sugar chains (PubMed:<a href="http://www.uniprot.org/citations/17006639" target="\_blank">17006639</a>, PubMed:<a href="http://www.uniprot.org/citations/10372966" target="\_blank">10372966</a>). Prefers complex-type N-glycans over hybrid-types (PubMed:<a href="http://www.uniprot.org/citations/17006639" target="\_blank">17006639</a>). Has lower affinities for donors or acceptors than MGAT4A, suggesting that, under physiological conditions, it is not the main contributor in N-glycan biosynthesis (PubMed:<a href="http://www.uniprot.org/citations/17006639" target="\_blank">17006639</a>).

**Cellular Location**

Golgi apparatus membrane {ECO:0000250|UniProtKB:Q9D4R2}; Single-pass type II membrane protein {ECO:0000250|UniProtKB:Q9D4R2}. Note=A processed soluble form also exists.

**Tissue Location**

Widely expressed. Strongly overexpressed in pancreatic cancer.

**MGAT4B Blocking Peptide (N-Term) - Protocols**

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

- [Blocking Peptides](#)

**MGAT4B Blocking Peptide (N-Term) - Images****MGAT4B Blocking Peptide (N-Term) - Background**

Glycosyltransferase that participates in the transfer of N-acetylglucosamine (GlcNAc) to the core mannose residues of N-linked glycans. Catalyzes the formation of the GlcNAcbeta1-4 branch on the GlcNAcbeta1-2Manalpha1-3 arm of the core structure of N-linked glycans. Essential for the production of tri- and tetra-antennary N-linked sugar chains. Has lower affinities for donors or acceptors than MGAT4A, suggesting that, under physiological conditions, it is not the main contributor in N-glycan biosynthesis.

**MGAT4B Blocking Peptide (N-Term) - References**

Yoshida A.,et al.Glycoconj. J. 15:1115-1123(1998).  
Clark H.F.,et al.Genome Res. 13:2265-2270(2003).  
Ota T.,et al.Nat. Genet. 36:40-45(2004).  
Schmutz J.,et al.Nature 431:268-274(2004).  
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.