

MGAT4A Blocking Peptide (N-Term)
Synthetic peptide
Catalog # BP22052a**Specification**

MGAT4A Blocking Peptide (N-Term) - Product Information

Primary Accession [O9UM21](#)
Other Accession [Q5F407](#), [Q4R854](#), [Q5REP8](#)

MGAT4A Blocking Peptide (N-Term) - Additional Information

Gene ID 11320

Other Names

Alpha-1, 3-mannosyl-glycoprotein 4-beta-N-acetylglucosaminyltransferase A, 2.4.1.145, N-glycosyl-oligosaccharide-glycoprotein N-acetylglucosaminyltransferase IVa, GlcNAc-T IVa, GnT-IVa, N-acetylglucosaminyltransferase IVa, UDP-N-acetylglucosamine: alpha-1, 3-D-mannoside beta-1, 4-N-acetylglucosaminyltransferase IVa, Alpha-1, 3-mannosyl-glycoprotein 4-beta-N-acetylglucosaminyltransferase A soluble form, MGAT4A

Target/Specificity

The synthetic peptide sequence is selected from aa 90-102 of HUMAN MGAT4A

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.

MGAT4A Blocking Peptide (N-Term) - Protein Information

Name MGAT4A ([HGNC:7047](#))

Function

Glycosyltransferase that catalyze 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:17006639). Involved in glucose transport by mediating SLC2A2/GLUT2 glycosylation, thereby controlling cell-surface expression of SLC2A2 in pancreatic beta cells (By similarity).

Cellular Location

[Alpha-1,3-mannosyl-glycoprotein 4-beta-N- acetylglucosaminyltransferase A]: Golgi apparatus membrane {ECO:0000250|UniProtKB:Q9D4R2}; Single-pass type II membrane protein

{ECO:0000250|UniProtKB:Q9D4R2}

Tissue Location

Expressed in pancreas, spleen, thymus, prostate, small intestine, peripheral blood leukocytes and lymph node. Strongly overexpressed in choriocarcinoma cancer cell lines. Down-regulated in pancreatic cancer.

MGAT4A Blocking Peptide (N-Term) - Protocols

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

- [Blocking Peptides](#)

MGAT4A Blocking Peptide (N-Term) - Images**MGAT4A 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. Involved in glucose transport by mediating SLC2A2/GLUT2 glycosylation, thereby controlling cell-surface expression of SLC2A2 in pancreatic beta cells.

MGAT4A Blocking Peptide (N-Term) - References

Yoshida A.,et al.Glycobiology 9:303-310(1999).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Hillier L.W.,et al.Nature 434:724-731(2005).
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.
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