MGAT4A Blocking Peptide (N-Term) Blocking Peptide

PRODUCT OVERVIEW

Product Name	MGAT4A, Blocking Peptide
Full Product Name	MGAT4A Blocking Peptide (N-Term)
Product Gene Name	MGAT4A blocking peptide
Product Synonym 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
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 1 mg/ml.
Specificity	The synthetic peptide sequence is selected from aa 90-102 of HUMAN MGAT4A
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	MGAT4A peptide (MBS9230644) is used for blocking the activity of MGAT4A antibody (MBS9217207)
Molecular Weight	48,946 Da
OMIM	604623
Cellular Location	Alpha-1,3-mannosyl-glycoprotein 4-beta-N- acetylglucosaminyltransferase A: Golgi apparatus membrane; Single-pass type II membrane protein
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
Related Product Information for MGAT4A blocking peptide	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.
Other Notes	Small volumes of MGAT4A blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for MGAT4A purchase	MBS9230644 is a blocking peptide targeting MGAT4A. Also known as MGAT4A Blocking Peptide (N-Term).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MGAT4A. It may not necessarily be applicable to this product.

NCBI GI #	74721048
NCBI GeneID	11320
NCBI Accession #	Q9UM21.1
UniProt Primary Accession #	Q9UM21
UniProt Secondary Accession #	Q53S97; Q86Z15; B4E2R6; D3DVH6; E9PEN2
UniProt Related Accession #	Q9UM21

NCBI Official Full Name	Alpha-1,3-mannosyl-glycoprotein 4-beta-N-acetylglucosaminyltransferase A
NCBI Official Synonym Full Names	mannosyl (alpha-1,3-)-glycoprotein beta-1,4-N-acetylglucosaminyltransferase, isozyme A
NCBI Official Symbol	MGAT4A
NCBI Official Synonym Symbols	GNT-IV; GnT-4a; GNT-IVA
UniProt Protein Name	Alpha-1,3-mannosyl-glycoprotein 4-beta-N-acetylglucosaminyltransferase A
UniProt Synonym Protein Names	N-glycosyl-oligosaccharide-glycoprotein N-acetylglucosaminyltransferase IVa; GlcNAc-T IVa; GnT-IVa; N-acetylglucosaminyltransferase IVa
Protein Family	Alpha-1,3-mannosyl-glycoprotein 4-beta-N-acetylglucosaminyltransferase
UniProt Gene Name	MGAT4A
UniProt Synonym Gene Names	GlcNAc-T IVa; GnT-IVa; N-acetylglucosaminyltransferase IVa
UniProt Entry Name	MGT4A_HUMAN
NCBI Protein Information	alpha-1,3-mannosyl-glycoprotein 4-beta-N-acetylglucosaminyltransferase A
NCBI Summary for MGAT4A	This gene encodes a key glycosyltransferase that regulates the formation of tri- and multiantennary branching structures in the Golgi apparatus. The encoded protein, in addition to the related isoenzyme B, catalyzes the transfer of N-acetylglucosamine (GlcNAc) from UDP-GlcNAc in a beta-1,4 linkage to the Man-alpha-1,3-Man-beta-1,4-GlcNAc arm of R-Man-alpha-1,6(GlcNAc-beta-1,2-Man-alpha-1,3)Man-beta-1,4-GlcNAc-beta-1,4-GlcNAc-beta-1-Asn. The encoded protein may play a role in regulating the availability of serum glycoproteins, oncogenesis, and differentiation. [provided by RefSeq, Jul 2008]
UniProt Comments for MGAT4A	MGAT4A: 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. Belongs to the glycosyltransferase 54 family. Protein type: Membrane protein, integral; Transferase; Glycan Metabolism - N-glycan biosynthesis; EC 2.4.1.145 Chromosomal Location of Human Ortholog: 2q12 Cellular Component: Golgi membrane Molecular Function: alpha-1,3-mannosylglycoprotein 4-beta-N-acetylglucosaminyltransferase activity Biological Process: N-glycan processing
Research Articles on MGAT4A	**1.** Data suggest microRNA-424 regulates expression of MGAT4A (mannoside beta-1,4-N-acetylglucosaminyltransferase A), OGT (O-linked N-acetylglucosamine transferase), and GALNT13 (polypeptide N-acetylgalactosaminyltransferase 13) in mammary epithelium.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.

Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/blocking-peptide/mgat4a/9230644