GBGT1 Blocking Peptide (Center) Blocking Peptide

PRODUCT OVERVIEW

Product Name	GBGT1, Blocking Peptide
Full Product Name	GBGT1 Blocking Peptide (Center)
Product Gene Name	GBGT1 blocking peptide
Product Synonym Names	Globoside alpha-1;3-N-acetylgalactosaminyltransferase 1; 2.4.1.-; Forssman glycolipid synthase-like protein; GBGT1
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 174-185 of HUMAN GBGT1
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	GBGT1 peptide (MBS9230618) is used for blocking the activity of GBGT1 antibody (MBS9217181)
Molecular Weight	37,945 Da
OMIM	606074
Cellular Location	Golgi apparatus membrane; Single-pass type II membrane protein
Tissue Location	Widely expressed. Expressed at higher level in placenta, ovary and peripheral blood leukocyte, whereas it is weakly expressed in liver, thymus, and testis
Related Product Information for GBGT1 blocking peptide	Catalyzes the formation of some glycolipid via the addition of N-acetylgalactosamine (GalNAc) in alpha-1,3-linkage to some substrate. Glycolipids probably serve for adherence of some pathogens.
Other Notes	Small volumes of GBGT1 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 GBGT1 purchase	MBS9230618 is a blocking peptide targeting GBGT1. Also known as GBGT1 Blocking Peptide (Center).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GBGT1. It may not necessarily be applicable to this product.

NCBI GI #	67464687
NCBI GeneID	26301
NCBI Accession #	Q8N5D6.2
UniProt Primary Accession #	Q8N5D6
UniProt Secondary Accession #	Q45F07; Q5T7U9; Q5T7V1; Q8N2K4; Q9UKI5; A8K633; B2RA95; B7Z8S5
UniProt Related Accession #	Q8N5D6
NCBI Official Full Name	Globoside alpha-1,3-N-acetylgalactosaminyltransferase 1
NCBI Official Synonym Full Names	globoside alpha-1,3-N-acetylgalactosaminyltransferase 1
NCBI Official Symbol	GBGT1
NCBI Official Synonym Symbols	FS; A3GALNT; UNQ2513

UniProt Protein Name	Globoside alpha-1,3-N-acetylgalactosaminyltransferase 1
UniProt Synonym Protein Names	Forssman glycolipid synthase-like protein
Protein Family	Globoside alpha-1,3-N-acetylgalactosaminyltransferase
UniProt Gene Name	GBGT1
UniProt Entry Name	GBGT1_HUMAN
NCBI Protein Information	globoside alpha-1,3-N-acetylgalactosaminyltransferase 1
NCBI Summary for GBGT1	This gene encodes a glycosyltransferase that plays a role in the synthesis of Forssman glycolipid (FG), a member of the globoseries glycolipid family. Glycolipids such as FG form attachment sites for the binding of pathogens to cells; expression of this protein may determine host tropism to microorganisms. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2013]
UniProt Comments for GBGT1	GBGT1: Catalyzes the formation of some glycolipid via the addition of N-acetylgalactosamine (GalNAc) in alpha-1,3-linkage to some substrate. Glycolipids probably serve for adherence of some pathogens. Belongs to the glycosyltransferase 6 family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral; Transferase; EC 2.4.1.88; Glycan Metabolism - glycosphingolipid biosynthesis - globo series Chromosomal Location of Human Ortholog: 9q34.13-q34.3 Biological Process: glycolipid biosynthetic process
Research Articles on GBGT1	**1.** GBGT1 expression is epigenetically silenced through promoter hypermethylation in ovarian cancer.
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