GALNT13 Blocking Peptide

PRODUCT OVERVIEW

Product Name	GALNT13, Blocking Peptide
Full Product Name	GALNT13 Peptide
Product Gene Name	GALNT13 blocking peptide
Product Synonym Gene Name	FLJ16031; FLJ41157; GalNAc-T13; H_NH0187G20.1; KIAA1918; MGC119459; MGC119461; WUGSC:H_NH0187G20.1
Form/Format	Lyophilized powder
Preparation and Storage	Add 100ul of sterile PBS. Final peptide concentration is 1 mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles.
Antibody/Peptide Pairs	GALNT13 peptide (MBS3234797) is used for blocking the activity of GALNT13 antibody (MBS3209842)
Molecular Weight	64kDa
OMIM	AB078142 mRNA
Product Categories/Family for GALNT13 blocking peptide	Peptide
Applications Tested/Suitable for GALNT13 blocking peptide	Western Blot (WB)
Related Product Information for GALNT13 blocking peptide	This is a synthetic peptide designed for use in combination with anti-GALNT13 antibody made Target Description: The GALNT13 protein is a member of the UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase (GalNAcT; EC 2.4.1.41) family, which initiate O-linked glycosylation of mucins by the initial transfer of N-acetylgalactosamine (GalNAc) with an alpha-linkage to a serine or threonine residue.The GALNT13 protein is a member of the UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase (GalNAcT; EC 2.4.1.41) family, which initiate O-linked glycosylation of mucins (see MUC3A, MIM 158371) by the initial transfer of N-acetylgalactosamine (GalNAc) with an alpha-linkage to a serine or threonine residue.[supplied by OMIM].
Other Notes	Small volumes of GALNT13 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 GALNT13 purchase	MBS3234797 is a blocking peptide targeting GALNT13. Also known as GALNT13 Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GALNT13. It may not necessarily be applicable to this product.

NCBI GI #	145309313
NCBI GeneID	114805
NCBI Accession #	NP_443149
UniProt Primary Accession #	Q8IUC8
UniProt Related Accession #	Q8IUC8
GenBank Nucleotide #	NM_052917

NCBI Official Full Name	polypeptide N-acetylgalactosaminyltransferase 13 isoform 1
NCBI Official Synonym Full Names	polypeptide N-acetylgalactosaminyltransferase 13
NCBI Official Symbol	GALNT13
NCBI Official Synonym Symbols	GalNAc-T13
UniProt Protein Name	Polypeptide N-acetylgalactosaminyltransferase 13
UniProt Synonym Protein Names	Polypeptide GalNAc transferase 13; GalNAc-T13; pp-GaNTase 13; Protein-UDP acetylgalactosaminyltransferase 13; UDP-GalNAc:polypeptide N-acetylgalactosaminyltransferase 13
Protein Family	Polypeptide N-acetylgalactosaminyltransferase
UniProt Gene Name	GALNT13
UniProt Synonym Gene Names	KIAA1918; GalNAc-T13; pp-GaNTase 13
NCBI Protein Information	polypeptide N-acetylgalactosaminyltransferase 13
NCBI Summary for GALNT13	The GALNT13 protein is a member of the UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase (GalNAcT; EC 2.4.1.41) family, which initiate O-linked glycosylation of mucins (see MUC3A, MIM 158371) by the initial transfer of N-acetylgalactosamine (GalNAc) with an alpha-linkage to a serine or threonine residue.[supplied by OMIM, Apr 2004]
UniProt Comments for GALNT13	GALNT13: Catalyzes the initial reaction in O-linked oligosaccharide biosynthesis, the transfer of an N-acetyl-D-galactosamine residue to a serine or threonine residue on the protein receptor. Has a much stronger activity than GALNT1 to transfer GalNAc to mucin peptides, such as Muc5Ac and Muc7. Able to glycosylate SDC3. May be responsible for the synthesis of Tn antigen in neuronal cells. Belongs to the glycosyltransferase 2 family. GalNAc-T subfamily. 2 isoforms of the human protein are produced by alternative splicing. Protein type: EC 2.4.1.41; Glycan Metabolism - O-glycan biosynthesis; Membrane protein, integral; Transferase Chromosomal Location of Human Ortholog: 2q23.3-q24.1 Cellular Component: Golgi membrane; integral component of membrane Molecular Function: carbohydrate binding; metal ion binding; polypeptide N-acetylgalactosaminyltransferase activity Biological Process: O-glycan processing; protein O-linked glycosylation via serine; protein O-linked glycosylation via threonine
Research Articles on GALNT13	**1.** the GalNAc-T13 isoform is predicted to function similarly to GalNAc-T1 against peptide substrates in vivo, in contrast to a prior report, but is unique by being selectively expressed in the brain.
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