SLC2A8 Blocking Peptide (Center) Blocking Peptide

PRODUCT OVERVIEW

Product Name	SLC2A8, Blocking Peptide
Full Product Name	SLC2A8 Blocking Peptide (Center)
Product Gene Name	SLC2A8 blocking peptide
Product Synonym Gene Name	GLUT8; GLUTX1
Product Synonym Names	Solute carrier family 2; facilitated glucose transporter member 8; Glucose transporter type 8; GLUT-8; Glucose transporter type X1; SLC2A8; GLUT8; GLUTX1
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 280-292 of HUMAN SLC2A8
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	SLC2A8 peptide (MBS9230726) is used for blocking the activity of SLC2A8 antibody (MBS9217291)
Molecular Weight	50,819 Da
OMIM	605245
Cellular Location	Cell membrane; Multi-pass membrane protein. Cytoplasmic vesicle membrane; Multi-pass membrane protein Note: Principally intracellular. May move between intracellular vesicles and the plasma membrane. The dileucine internalization motif is critical for intracellular sequestration (By similarity)
Tissue Location	Highly expressed in testis, but not in testicular carcinoma. Lower amounts present in most other tissues
Related Product Information for SLC2A8 blocking peptide	Insulin-regulated facilitative glucose transporter. Binds cytochalasin B in a glucose-inhibitable manner. Seems to be a dual-specific sugar transporter as it is inhibitable by fructose (By similarity).
Other Notes	Small volumes of SLC2A8 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 SLC2A8 purchase	MBS9230726 is a blocking peptide targeting SLC2A8. Also known as SLC2A8 Blocking Peptide (Center).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SLC2A8. It may not necessarily be applicable to this product.

NCBI GI #	145559479
NCBI GeneID	29988
NCBI Accession #	Q9NY64.3
UniProt Primary Accession #	Q9NY64
UniProt Secondary Accession #	Q8WUZ9; Q9NSC4
UniProt Related Accession #	Q9NY64
NCBI Official Full Name	Solute carrier family 2, facilitated glucose transporter member 8
NCBI Official Synonym Full Names	solute carrier family 2 member 8

NCBI Official Symbol	SLC2A8
NCBI Official Synonym Symbols	GLUT8; GLUTX1
UniProt Protein Name	Solute carrier family 2, facilitated glucose transporter member 8
UniProt Synonym Protein Names	Glucose transporter type 8; GLUT-8; Glucose transporter type X1
Protein Family	Solute carrier family
UniProt Gene Name	SLC2A8
UniProt Synonym Gene Names	GLUT8; GLUTX1; GLUT-8
UniProt Entry Name	GTR8_HUMAN
NCBI Protein Information	solute carrier family 2, facilitated glucose transporter member 8
NCBI Summary for SLC2A8	This gene belongs to the solute carrier 2A family, which includes intracellular glucose transporters. Based on sequence comparison, the glucose transporters are grouped into three classes and this gene is a member of class II. The encoded protein, like other members of the family, contains several conserved residues and motifs and 12 transmembrane domains with both amino and carboxyl ends being on the cytosolic side of the membrane. Alternatively spliced transcript variants have been described for this gene. [provided by RefSeq, Nov 2012]
UniProt Comments for SLC2A8	SLC2A8: Insulin-regulated facilitative glucose transporter. Binds cytochalasin B in a glucose-inhibitable manner. Seems to be a dual-specific sugar transporter as it is inhibitable by fructose. Belongs to the major facilitator superfamily. Sugar transporter (TC 2.A.1.1) family. Glucose transporter subfamily. Protein type: Transporter, SLC family; Membrane protein, integral; Membrane protein, multi-pass; Transporter Chromosomal Location of Human Ortholog: 9q33.3 Cellular Component: lysosomal membrane; plasma membrane Molecular Function: D-glucose transmembrane transporter activity; glucose transmembrane transporter activity; sugar:hydrogen ion symporter activity Biological Process: carbohydrate metabolic process; glucose import; glucose transport
Research Articles on SLC2A8	**1.** GLUT8 is thus essential for hepatocyte fructose transport and fructose-induced macrosteatosis.
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