GLUT3 Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	GLUT3, Blocking Peptide
Full Product Name	GLUT3 Blocking Peptide
Product Gene Name	GLUT3 blocking peptide
Product Synonym Gene Name	SLC2A3
Product Synonym Names	brain; FLJ90380; Glucose transporter type 3; Glucose transporter type 3 brain; GLUT 3; GLUT-3; GLUT3; GTR3_HUMAN; Slc2a3; Solute Carrier Family 2 (Facilitated Glucose Transporter) Member 3; Solute carrier family 2, facilitated glucose transporter member 3
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 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
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	GLUT3 peptide (MBS9617166) is used for blocking the activity of GLUT3 antibody (MBS9601634)
Molecular Weight	53,924 Da
Chromosome Location	Chromosome: 12; NC_000012.11 (8071824..8088892, complement). Location: 12p13.3
OMIM	138170
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for GLUT3 blocking peptide	Blocking/Control
Related Product Information for GLUT3 blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
Other Notes	Small volumes of GLUT3 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 GLUT3 purchase	MBS9617166 is a blocking peptide targeting GLUT3.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GLUT3. It may not necessarily be applicable to this product.

NCBI GI #	5902090
NCBI GeneID	6515
NCBI Accession #	NP_008862.1

UniProt Primary Accession #	P11169
UniProt Secondary Accession #	Q6I9U2; Q9UG15; B2R606; D3DUU6
UniProt Related Accession #	P11169
GenBank Nucleotide #	NM_006931.2
NCBI Official Full Name	solute carrier family 2, facilitated glucose transporter member 3
NCBI Official Synonym Full Names	solute carrier family 2 (facilitated glucose transporter), member 3
NCBI Official Symbol	SLC2A3
NCBI Official Synonym Symbols	GLUT3
UniProt Protein Name	Solute carrier family 2, facilitated glucose transporter member 3
UniProt Synonym Protein Names	Glucose transporter type 3, brain
Protein Family	Glucose transporter
UniProt Gene Name	SLC2A3
UniProt Synonym Gene Names	GLUT3; GLUT-3
UniProt Entry Name	GTR3_HUMAN
NCBI Protein Information	solute carrier family 2, facilitated glucose transporter member 3; GLUT-3; glucose transporter type 3, brain
UniProt Comments for GLUT3	GLUT3: an integral membrane facilitative glucose transporter. One of 13 members of the human equilibrative glucose transport protein family. It???s surface expression is induced by insulin. It is restricted in humans to brain, testis (in the spermatozoa), and skeletal muscle, mostly in triads of slow-twitch fibres. Detected only in the brain of mouse and rat. IHC demonstrates its present in neurons, mainly at the plasma membrane, and to a lesser extent on intracellular vesicles distinct from synaptic vesicles. Present in the a-granules of human platelets, where it is translocated to the cell surface in response to thrombin stimulation. Its surface expression is increased by insulin or insulin growth-factor in cultured L6 muscle cells. Protein type: Membrane protein, integral; Transporter; Membrane protein, multi-pass; Transporter, SLC family Chromosomal Location of Human Ortholog: 12p13.3 Cellular Component: integral to membrane; plasma membrane Molecular Function: glucose transmembrane transporter activity Biological Process: vitamin metabolic process; hexose transport; carbohydrate metabolic process; L-ascorbic acid metabolic process; pathogenesis; glucose transport; transmembrane transport; water-soluble vitamin metabolic process
Research Articles on GLUT3	**1.** GLUT3 shows increasing promoter methylation across gestation.
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