SLC25A3 Peptide - N-Terminal Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	SLC25A3, Blocking Peptide
Full Product Name	SLC25A3 Peptide - N-terminal region
Product Gene Name	SLC25A3 blocking peptide
Product Synonym Gene Name	PHC; PTP; OK/SW-cl.48
Sequence	Synthetic peptide located within the following region: NPFNTPHLQL VHDGLGDLRS SSPGPTGQPR RPRNLAAAAV EEQYSCDYGS
Species Reactivity	Human
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	SLC25A3 peptide (MBS3245160) is used for blocking the activity of SLC25A3 antibody (MBS3220359)
Molecular Weight	40 kDa
OMIM	600370
Product Categories/Family for SLC25A3 blocking peptide	Peptide
Applications Tested/Suitable for SLC25A3 blocking peptide	Western Blot (WB)
Related Product Information for SLC25A3 blocking peptide	The protein encoded by this gene catalyzes the transport of phosphate into the mitochondrial matrix, either by proton cotransport or in exchange for hydroxyl ions. The protein contains three related segments arranged in tandem which are related to those found in other characterized members of the mitochondrial carrier family. Both the N-terminal and C-terminal regions of this protein protrude toward the cytosol. Multiple alternatively spliced transcript variants have been isolated.
Other Notes	Small volumes of SLC25A3 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 SLC25A3 purchase	MBS3245160 is a blocking peptide targeting SLC25A3. Also known as SLC25A3 Peptide - N-terminal region. Reactive in Human.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SLC25A3. It may not necessarily be applicable to this product.

NCBI GI #	4505775
NCBI GeneID	5250
NCBI Accession #	NP_002626.1
UniProt Primary Accession #	Q00325
UniProt Related Accession #	Q00325
GenBank Nucleotide #	NM_002635.3
NCBI Official Full Name	phosphate carrier protein, mitochondrial isoform b

NCBI Official Synonym Full Names	solute carrier family 25 member 3
NCBI Official Symbol	SLC25A3
NCBI Official Synonym Symbols	PHC; PTP; OK/SW-cl.48
UniProt Protein Name	Phosphate carrier protein, mitochondrial
UniProt Synonym Protein Names	Phosphate transport protein; PTP; Solute carrier family 25 member 3
UniProt Gene Name	SLC25A3
UniProt Synonym Gene Names	PHC; PTP
UniProt Entry Name	MPCP_HUMAN
NCBI Protein Information	phosphate carrier protein, mitochondrial
UniProt Comments for SLC25A3	SLC25A3: Transport of phosphate groups from the cytosol to the mitochondrial matrix. Phosphate is cotransported with H(+). Defects in SLC25A3 are a cause of mitochondrial phosphate carrier deficiency (MPCD). MPCD is a fatal disorder of oxidative phosphorylation. Patients have lactic acidosis, hypertrophic cardiomyopathy and muscular hypotonia and die within the first year of life. Belongs to the mitochondrial carrier family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral; Transporter, SLC family; Membrane protein, multi-pass; Mitochondrial; Transporter Chromosomal Location of Human Ortholog: 12q23 Cellular Component: membrane; mitochondrion; integral to plasma membrane; mitochondrial inner membrane Molecular Function: phosphate carrier activity; symporter activity; protein complex binding Biological Process: generation of precursor metabolites and energy; transport Disease: Mitochondrial Phosphate Carrier Deficiency
Research Articles on SLC25A3	**1.** SLC25A3 is a mitochondrial copper transporter.
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