TIM22 Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	TIM22, Blocking Peptide
Full Product Name	TIM22 Blocking Peptide
Product Gene Name	TIM22 blocking peptide
Product Synonym Gene Name	TIMM22
Product Synonym Names	Mitochondrial import inner membrane translocase subunit Tim22; Putative membrane protein; Testis expressed sequence 4; TEX 4; TEX4; TIM 22; TIM22; TIMM 22; Translocase of inner mitochondrial membrane 22 homolog
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	TIM22 peptide (MBS9620941) is used for blocking the activity of TIM22 antibody (MBS9603464)
Molecular Weight	20,031 Da
OMIM	AF155330 mRNA
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 TIM22 blocking peptide	Blocking/Control
Related Product Information for TIM22 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 TIM22 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 TIM22 purchase	MBS9620941 is a blocking peptide targeting TIM22.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TIM22. It may not necessarily be applicable to this product.

NCBI GI #	56606061
NCBI GeneID	29928
NCBI Accession #	NP_037469.2
UniProt Primary Accession #	Q9Y584
UniProt Secondary Accession #	Q9NWI8

UniProt Related Accession #	Q9Y584
GenBank Nucleotide #	NM_013337.3
NCBI Official Full Name	mitochondrial import inner membrane translocase subunit Tim22
NCBI Official Synonym Full Names	translocase of inner mitochondrial membrane 22
NCBI Official Symbol	TIMM22
NCBI Official Synonym Symbols	TEX4; TIM22
UniProt Protein Name	Mitochondrial import inner membrane translocase subunit Tim22
UniProt Synonym Protein Names	Testis-expressed protein 4
Protein Family	Mitochondrial import inner membrane translocase
UniProt Gene Name	TIMM22
UniProt Synonym Gene Names	TEX4; TIM22
NCBI Protein Information	mitochondrial import inner membrane translocase subunit Tim22
NCBI Summary for TIM22	Multipass transmembrane proteins are brought into mitochondria and inserted into the mitochondrial inner membrane by way of the TIM22 complex. This complex has six subunits and is a twin-pore translocase. The protein encoded by this gene is a subunit of TIM22 and represents the voltage-activated and signal-gated channel. [provided by RefSeq, Jul 2016]
UniProt Comments for TIM22	Essential core component of the TIM22 complex, a complex that mediates the import and insertion of multi-pass transmembrane proteins into the mitochondrial inner membrane. In the TIM22 complex, it constitutes the voltage-activated and signal-gated channel. Forms a twin-pore translocase that uses the membrane potential as external driving force in 2 voltage-dependent steps ().
Research Articles on TIM22	**1.** Identify AGK as a bona fide subunit of TIM22 providing an exciting and unexpected link between mitochondrial protein import and Sengers syndrome.
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