TIM 4 Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	TIM 4 (TIMD4), Blocking Peptide
Full Product Name	TIM 4 Blocking Peptide
Product Gene Name	TIMD4 blocking peptide
Product Synonym Gene Name	TIM4
Product Synonym Names	SMUCKLER; Spleen; mucin-containing; knockout of lymphotoxin protein; T cell immunoglobulin and mucin domain containing protein 4; T-cell immunoglobulin and mucin domain containing 4; T-cell immunoglobulin and mucin domain containing molecule; T-cell immunoglobulin and mucin domain-containing protein 4; T-cell immunoglobulin and mucin domains-containing protein 4; T-cell membrane protein 4; TIM-4; Tim4; TIMD 4; TIMD-4; Timd4; TIMD4_HUMAN
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	TIM 4 peptide (MBS9622339) is used for blocking the activity of TIM 4 antibody (MBS9612395)
Molecular Weight	38,536 Da
OMIM	610096
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 TIMD4 blocking peptide	Blocking/Control
Related Product Information for TIMD4 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 TIMD4 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 TIMD4 purchase	MBS9622339 is a blocking peptide targeting TIMD4. Also known as TIM 4 Blocking Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TIMD4. It may not necessarily be applicable to this product.

NCBI GI #	226529863
NCBI GeneID	91937
NCBI Accession #	NP_612388

UniProt Primary Accession #	Q96H15
UniProt Secondary Accession #	B5MCL9
UniProt Related Accession #	Q96H15
GenBank Nucleotide #	NP_612388.2
NCBI Official Full Name	T-cell immunoglobulin and mucin domain-containing protein 4 isoform 1
NCBI Official Synonym Full Names	T-cell immunoglobulin and mucin domain containing 4
NCBI Official Symbol	TIMD4
NCBI Official Synonym Symbols	TIM4; SMUCKLER
UniProt Protein Name	T-cell immunoglobulin and mucin domain-containing protein 4
UniProt Synonym Protein Names	T-cell immunoglobulin mucin receptor 4; TIM-4; T-cell membrane protein 4
Protein Family	T-cell immunoglobulin and mucin domain-containing protein
UniProt Gene Name	TIMD4
UniProt Synonym Gene Names	TIM4; TIMD-4; TIM-4
UniProt Entry Name	TIMD4_HUMAN
NCBI Protein Information	T-cell immunoglobulin and mucin domain-containing protein 4; TIM-4; TIMD-4; T-cell membrane protein 4; T-cell immunoglobulin mucin receptor 4
UniProt Comments for TIMD4	TIM-4: Phosphatidylserine receptor that enhances the engulfment of apoptotic cells. Involved in regulating T-cell proliferation and lymphotoxin signaling. Ligand for HAVCR1/TIMD1. Belongs to the immunoglobulin superfamily. TIM family. Protein type: Membrane protein, integral Chromosomal Location of Human Ortholog: 5q33.3 Cellular Component: integral to membrane
Research Articles on TIMD4	**1.** Our study uncovers a novel ability of TIM-family proteins to block the release of HIV-1 and other viruses by interaction with virion- and cell-associated phosphatidylserine.
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