PSMA3 Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	PSMA3, Blocking Peptide
Full Product Name	PSMA3 Blocking Peptide
Product Gene Name	PSMA3 blocking peptide
Product Synonym Names	HC8; Macropain subunit C8; MGC12306; MGC32631; Multicatalytic endopeptidase complex subunit C8; Proteasome (prosome macropain) subunit alpha type 3; Proteasome alpha 3 subunit; Proteasome component C8; Proteasome subunit alpha type 3; Proteasome subunit alpha type-3; Proteasome subunit C8; PSA3_HUMAN; PSC8; psmA3
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	PSMA3 peptide (MBS9625750) is used for blocking the activity of PSMA3 antibody (MBS9607034)
Molecular Weight	28,433 Da
Chromosome Location	Chromosome: 14; NC_000014.8 (58711523..58738727). Location: 14q23
OMIM	176843
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 PSMA3 blocking peptide	Blocking/Control
Related Product Information for PSMA3 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 PSMA3 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 PSMA3 purchase	MBS9625750 is a blocking peptide targeting PSMA3.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PSMA3. It may not necessarily be applicable to this product.

NCBI GI #	4506183
NCBI GeneID	5684
NCBI Accession #	NP_002779.1

UniProt Primary Accession #	P25788
UniProt Secondary Accession #	Q86U83; Q8N1D8; Q9BS70; B2RCK6
UniProt Related Accession #	P25788
GenBank Nucleotide #	NM_002788.3
NCBI Official Full Name	proteasome subunit alpha type-3 isoform 1
NCBI Official Synonym Full Names	proteasome (prosome, macropain) subunit, alpha type, 3
NCBI Official Symbol	PSMA3
NCBI Official Synonym Symbols	HC8; PSC3
UniProt Protein Name	Proteasome subunit alpha type-3
UniProt Synonym Protein Names	Macropain subunit C8; Multicatalytic endopeptidase complex subunit C8; Proteasome component C8
Protein Family	Phenol-soluble modulin alpha 3 peptide
UniProt Gene Name	PSMA3
UniProt Synonym Gene Names	HC8; PSC8
UniProt Entry Name	PSA3_HUMAN
NCBI Protein Information	proteasome subunit alpha type-3; macropain subunit C8; proteasome subunit C8; proteasome component C8; multicatalytic endopeptidase complex subunit C8
NCBI Summary for PSMA3	The proteasome is a multicatalytic proteinase complex with a highly ordered ring-shaped 20S core structure. The core structure is composed of 4 rings of 28 non-identical subunits; 2 rings are composed of 7 alpha subunits and 2 rings are composed of 7 beta subunits. Proteasomes are distributed throughout eukaryotic cells at a high concentration and cleave peptides in an ATP/ubiquitin-dependent process in a non-lysosomal pathway. An essential function of a modified proteasome, the immunoproteasome, is the processing of class I MHC peptides. This gene encodes a member of the peptidase T1A family, that is a 20S core alpha subunit. Two alternative transcripts encoding different isoforms have been identified. [provided by RefSeq, Jul 2008]
UniProt Comments for PSMA3	PSMA3: a proteasomal protein of the T1A peptidase family. The proteasome is a multicatalytic proteinase complex which is characterized by its ability to cleave peptides with Arg, Phe, Tyr, Leu, and Glu adjacent to the leaving group at neutral or slightly basic pH. Proteasomes are distributed throughout eukaryotic cells at a high concentration and cleave peptides in an ATP/ubiquitin-dependent process in a non-lysosomal pathway. Two alternatively spliced isoforms have been identified. Protein type: EC 3.4.25.1; Protease; Proteasome complex Chromosomal Location of Human Ortholog: 14q23 Cellular Component: nucleoplasm; proteasome complex; proteasome core complex; cytoplasm; cytosol; nucleus Molecular Function: threonine endopeptidase activity; protein binding Biological Process: positive regulation of ubiquitin-protein ligase activity during mitotic cell cycle; negative regulation of ubiquitin-protein ligase activity during mitotic cell cycle; protein polyubiquitination; viral reproduction; apoptosis; antigen processing and presentation of exogenous peptide antigen via MHC class I, TAP-dependent; DNA damage response, signal transduction by p53 class mediator resulting in cell cycle arrest; regulation of apoptosis; antigen processing and presentation of peptide antigen via MHC class I; regulation of ubiquitin-protein ligase activity during mitotic cell cycle; anaphase-promoting complex-dependent proteasomal ubiquitin-dependent protein catabolic process; antigen processing and presentation of exogenous peptide antigen via MHC class I; gene expression; mitotic cell cycle; regulation of amino acid metabolic process; G1/S transition of mitotic cell cycle; negative regulation of apoptosis
Research Articles on PSMA3	**1.** A combination of two-dimensional gel electrophoresis (2D-GE) and tandem mass-spectrometry revealed a large number of PSMA3-bound proteins that are involved in various aspects of mRNA metabolism, including splicing.

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