PSMD8 Blocking Peptide

PRODUCT OVERVIEW

Product Name	PSMD8, Blocking Peptide
Full Product Name	PSMD8 Peptide
Product Gene Name	PSMD8 blocking peptide
Product Synonym Gene Name	HIP6; HYPF; MGC1660; Nin1p; Rpn12; S14; p31
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	PSMD8 peptide (MBS3233888) is used for blocking the activity of PSMD8 antibody (MBS3208925)
Molecular Weight	27kDa
OMIM	617844
Product Categories/Family for PSMD8 blocking peptide	Peptide
Applications Tested/Suitable for PSMD8 blocking peptide	Western Blot (WB)
Related Product Information for PSMD8 blocking peptide	This is a synthetic peptide designed for use in combination with anti-PSMD8 antibody made Target Description: The 26S proteasome is a multicatalytic proteinase complex with a highly ordered structure composed of 2 complexes, a 20S core and a 19S regulator. PSMD8 is a non-ATPase subunit of the 19S regulator. The 19S regulator is composed of a base, which contains 6 ATPase subunits and 2 non-ATPase subunits, and a lid, which contains up to 10 non-ATPase 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.
Other Notes	Small volumes of PSMD8 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 PSMD8 purchase	MBS3233888 is a blocking peptide targeting PSMD8. Also known as PSMD8 Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PSMD8. It may not necessarily be applicable to this product.

NCBI GI #	54696244
NCBI GeneID	5714
NCBI Accession #	AAV38494
UniProt Primary Accession #	P48556
UniProt Related Accession #	P48556
GenBank Nucleotide #	P48556
NCBI Official Full Name	proteasome (prosome, macropain) 26S subunit, non-ATPase, 8
NCBI Official Synonym Full Names	proteasome 26S subunit, non-ATPase 8

NCBI Official Symbol	PSMD8
NCBI Official Synonym Symbols	S14; p31; HIP6; HYPF; Nin1p; Rpn12; HEL-S-91n
UniProt Protein Name	26S proteasome non-ATPase regulatory subunit 8
UniProt Synonym Protein Names	26S proteasome regulatory subunit RPN12; 26S proteasome regulatory subunit S14; p31
Protein Family	26S proteasome non-ATPase regulatory
UniProt Gene Name	PSMD8
NCBI Protein Information	26S proteasome non-ATPase regulatory subunit 8
NCBI Summary for PSMD8	The 26S proteasome is a multicatalytic proteinase complex with a highly ordered structure composed of 2 complexes, a 20S core and a 19S regulator. The 20S core 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. The 19S regulator is composed of a base, which contains 6 ATPase subunits and 2 non-ATPase subunits, and a lid, which contains up to 10 non-ATPase 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 non-ATPase subunit of the 19S regulator. A pseudogene has been identified on chromosome 1. [provided by RefSeq, Jul 2008]
UniProt Comments for PSMD8	Component of the 26S proteasome, a multiprotein complex involved in the ATP-dependent degradation of ubiquitinated proteins. This complex plays a key role in the maintenance of protein homeostasis by removing misfolded or damaged proteins, which could impair cellular functions, and by removing proteins whose functions are no longer required. Therefore, the proteasome participates in numerous cellular processes, including cell cycle progression, apoptosis, or DNA damage repair.
Research Articles on PSMD8	**1.** These findings support the hypothesis that neurodegenerative disorders result primarily from a generic cell dysfunction caused by early misfolded species in the aggregation process.
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