LMP2, TYG Peptide – (419-427) Synthetic Peptide, >95% Purity

PRODUCT OVERVIEW

Product Name	LMP2, Peptide
Full Product Name	LMP2 (419-427), TYG
Product Gene Name	LMP2 peptide
Host	Synthetic
Form/Format	Lyophilized Powder
Purity/Purification	> 95%
Preparation and Storage	Shipped at 4 degree C. Store at -20 degree C for one year.
Molecular Weight	1030.27
OMIM	177045
Molecular Formula	C48H71N9O12S2
Chemical Structure	Thr-Tyr-Gly-Pro-Val-Phe-Met-Cys-Leu
Related Product Information for LMP2 peptide	MBS8246736 is a peptide targeting LMP2. Also known as LMP2 (419-427), TYG. Host: Synthetic. Peptide to LMP2 (419-427), TYG
Other Notes	Small volumes of LMP2 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for LMP2. It may not necessarily be applicable to this product.

NCBI GI #	34635
NCBI GeneID	5698
NCBI Accession #	CAA47024.1
UniProt Primary Accession #	P28065
UniProt Secondary Accession #	Q16523; Q5JNW4; B0V0T1
UniProt Related Accession #	P28065
NCBI Official Full Name	LMP2
NCBI Official Synonym Full Names	proteasome subunit beta 9
NCBI Official Symbol	PSMB9
NCBI Official Synonym Symbols	LMP2; PSMB6i; RING12; beta1i
UniProt Protein Name	Proteasome subunit beta type-9
UniProt Synonym Protein Names	Low molecular mass protein 2; Macropain chain 7; Multicatalytic endopeptidase complex chain 7; Proteasome chain 7; Proteasome subunit beta-1i; Really interesting new gene 12 protein
Protein Family	Latent membrane protein
UniProt Gene Name	PSMB9

UniProt Synonym Gene Names	LMP2; PSMB6i; RING12
UniProt Entry Name	PSB9_HUMAN
NCBI Protein Information	proteasome subunit beta type-9
NCBI Summary for LMP2	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 proteasome B-type family, also known as the T1B family, that is a 20S core beta subunit. This gene is located in the class II region of the MHC (major histocompatibility complex). Expression of this gene is induced by gamma interferon and this gene product replaces catalytic subunit 1 (proteasome beta 6 subunit) in the immunoproteasome. Proteolytic processing is required to generate a mature subunit. [provided by RefSeq, Mar 2010]
UniProt Comments for LMP2	PSMB9: 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. The proteasome has an ATP-dependent proteolytic activity. This subunit is involved in antigen processing to generate class I binding peptides. Replacement of PSMB6 by PSMB9 increases the capacity of the immunoproteasome to cleave model peptides after hydrophobic and basic residues. Belongs to the peptidase T1B family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Proteasome complex; Nuclear receptor co-regulator; Protease; EC 3.4.25.1 Chromosomal Location of Human Ortholog: 6p21.3 Cellular Component: cytoplasm; cytosol; nucleoplasm; proteasome complex; proteasome core complex Molecular Function: protein binding Biological Process: anaphase-promoting complex-dependent proteasomal ubiquitin-dependent protein catabolic process; antigen processing and presentation of exogenous peptide antigen via MHC class I, TAP-dependent; MAPKKK cascade; negative regulation of ubiquitin-protein ligase activity during mitotic cell cycle; positive regulation of ubiquitin-protein ligase activity during mitotic cell cycle; proteasomal ubiquitin-dependent protein catabolic process; protein polyubiquitination; regulation of amino acid metabolic process; regulation of mRNA stability; stimulatory C-type lectin receptor signaling pathway; T cell receptor signaling pathway; tumor necrosis factor-mediated signaling pathway; Wnt receptor signaling pathway, planar cell polarity pathway
Research Articles on LMP2	**1.** The TAP1-rs1135216 and PSMB9-rs17587 variants are significantly associated with vitiligo, and even one copy of these mutant alleles can influence the risk among Saudis.
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