Proteasome Subunit Beta Type-1 (PSMB1) Bovine Recombinant Protein

PRODUCT OVERVIEW

Product Name	Proteasome subunit beta type-1 (PSMB1), Recombinant Protein
Full Product Name	Recombinant Bovine Proteasome subunit beta type-1 (PSMB1)
Product Gene Name	PSMB1 recombinant protein
Product Synonym Gene Name	PSMB1
Sequence	RFSPYAFNGG TVLAIAGEDF SIVASDTRLS EGFSIHTRDS PKCYKLTDKT VIGCSGFHGD CLTLTKIIEA RLKMYKHSNN KAMTTGAIAA MLSTILYSRR FFPYYVYNII GGLDEEGKGA VYSFDPVGSY QRDSFKAGGS ASAMLQPLLD NQVGFKNMQN VEHVPLSLDR AMRLVKDVFI SAAERDVYTG DALKVCIVTK EGIRGETVPL RKD
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	26,246 Da
Sequence Positions	29-241, full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q2TBX6
Species	Bovine
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for PSMB1 recombinant protein	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 tightly linked to the TBP (TATA-binding protein) gene in human and in mouse, and is transcribed in the opposite orientation in both species.
Other Notes	Small volumes of PSMB1 recombinant protein 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 PSMB1 purchase	MBS1342314 is a recombinant protein targeting PSMB1. Also known as Recombinant Bovine Proteasome subunit beta type-1 (PSMB1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PSMB1. It may not necessarily be applicable to this product.

NCBI GI #	84370111

NCBI GeneID	514237
NCBI Accession #	NP_001033628.1
UniProt Primary Accession #	Q2TBX6
UniProt Related Accession #	Q2TBX6
GenBank Nucleotide #	NM_001038539.2
NCBI Official Full Name	proteasome subunit beta type-1
NCBI Official Synonym Full Names	proteasome subunit beta 1
NCBI Official Symbol	PSMB1
UniProt Protein Name	Proteasome subunit beta type-1
Protein Family	Proteasome
UniProt Gene Name	PSMB1
NCBI Protein Information	proteasome subunit beta type-1
UniProt Comments for PSMB1	Component of the 20S core proteasome complex involved in the proteolytic degradation of most intracellular proteins. This complex plays numerous essential roles within the cell by associating with different regulatory particles. Associated with two 19S regulatory particles, forms the 26S proteasome and thus participates in the ATP-dependent degradation of ubiquitinated proteins. The 26S proteasome plays a key role in the maintenance of protein homeostasis by removing misfolded or damaged proteins that could impair cellular functions, and by removing proteins whose functions are no longer required. Associated with the PA200 or PA28, the 20S proteasome mediates ubiquitin-independent protein degradation. This type of proteolysis is required in several pathways including spermatogenesis (20S-PA200 complex) or generation of a subset of MHC class I-presented antigenic peptides (20S-PA28 complex).
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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