26s Proteasome Non-Atpase Regulatory Subunit 2 (PSMD2) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	26S proteasome non-ATPase regulatory subunit 2 (PSMD2), Recombinant Protein
Full Product Name	Recombinant Human 26S proteasome non-ATPase regulatory subunit 2 (PSMD2) , partial
Product Gene Name	PSMD2 recombinant protein
Product Synonym Gene Name	PSMD2
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	85,606 Da
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.
OMIM	606223
3D Structure	ModBase 3D Structure for Q13200
Species	Human
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for PSMD2 recombinant protein	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 one of the non-ATPase subunits of the 19S regulator lid. In addition to participation in proteasome function, this subunit may also participate in the TNF signalling pathway since it interacts with the tumor necrosis factor type 1 receptor. A pseudogene has been identified on chromosome 1.
Other Notes	Small volumes of PSMD2 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 PSMD2 purchase	MBS1434404 is a recombinant protein targeting PSMD2. Also known as Recombinant Human 26S proteasome non-ATPase regulatory subunit 2 (PSMD2) , partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PSMD2. It may not necessarily be applicable to this product.

NCBI GI #	523425734

NCBI GeneID	5708
NCBI Accession #	NP_001265637.1
UniProt Primary Accession #	Q13200
UniProt Secondary Accession #	Q12932; Q15321; Q53XQ4; Q96I12; B4DX07; B4DXY1; E7EW34; E9PCS3
UniProt Related Accession #	Q13200
GenBank Nucleotide #	NM_001278708.1
NCBI Official Full Name	26S proteasome non-ATPase regulatory subunit 2 isoform 2
NCBI Official Synonym Full Names	proteasome 26S subunit, non-ATPase 2
NCBI Official Symbol	PSMD2
NCBI Official Synonym Symbols	S2; P97; RPN1; TRAP2
UniProt Protein Name	26S proteasome non-ATPase regulatory subunit 2
UniProt Synonym Protein Names	26S proteasome regulatory subunit RPN1; 26S proteasome regulatory subunit S2; 26S proteasome subunit p97; Protein 55.11; Tumor necrosis factor type 1 receptor-associated protein 2
Protein Family	26S proteasome non-ATPase regulatory
UniProt Gene Name	PSMD2
UniProt Synonym Gene Names	TRAP2
NCBI Protein Information	26S proteasome non-ATPase regulatory subunit 2
NCBI Summary for PSMD2	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 one of the non-ATPase subunits of the 19S regulator lid. In addition to participation in proteasome function, this subunit may also participate in the TNF signalling pathway since it interacts with the tumor necrosis factor type 1 receptor. A pseudogene has been identified on chromosome 1. Alternative splicing results in multiple transcript variants of this gene. [provided by RefSeq, Jul 2013]
UniProt Comments for PSMD2	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 PSMD2	**1.** the high-resolution solution structure of the UBL domain of human UBLCP1 and its interaction with Rpn1
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