# Proteasome Subunit Alpha Type-1 (PSMA1) Macaca Fascicularis Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | Proteasome subunit alpha type-1 (PSMA1), Recombinant Protein |
| **Full Product Name** | Recombinant Macaca fascicularis Proteasome subunit alpha type-1 (PSMA1) |
| **Product Gene Name** | PSMA1 recombinant protein |
| **Product Synonym Gene Name** | PSMA1 |
| **Sequence** | MFRNQYDNDV TVWSPQGRIH QIEYAMEAVK QGSATVGLKS KTHAVLVALK RAQSELAAHR KKILHVDNHI GISIAGLTAD ARLLCNFMRQ ECLDSRFVFD RPLPVSRLVS LIGSKTQIPT QRYGRRPYGV GLLIAGYDDM GPHIFQTCPS ANYFDCRAMS IGARSQSART YLERHMSEFM ECNLNELVKH GLRALRETLP AEQDLTTKNV SIGIVGKDLE FTIYDDDDVS PFLEGLEERP QRKAQPAQPA DEPAEKADEP MEH |
| **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** | 29,584 Da |
| **Sequence Positions** | 1-263, 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 Q4R3H2 |
| **Species** | Macaca fascicularis (Crab-eating macaque) (Cynomolgus monkey) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for PSMA1 recombinant protein** | MBS1448048 is a recombinant protein targeting PSMA1. Also known as Recombinant Macaca fascicularis Proteasome subunit alpha type-1 (PSMA1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |
| **Other Notes** | Small volumes of PSMA1 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. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PSMA1. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 548961047 |
| **NCBI GeneID** | 101926612 |
| **NCBI Accession #** | NP_001271999.1 |
| **UniProt Primary Accession #** | Q4R3H2 |
| **UniProt Related Accession #** | Q4R3H2 |

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| **GenBank Nucleotide #** | NM_001285070.1 |
| **NCBI Official Full Name** | proteasome subunit alpha type-1 |
| **NCBI Official Symbol** | PSMA1 |
| **UniProt Protein Name** | Proteasome subunit alpha type-1 |
| **Protein Family** | Phenol-soluble modulin alpha 1 peptide |
| **UniProt Gene Name** | PSMA1 |
| **NCBI Protein Information** | proteasome subunit alpha type-1 |
| **UniProt Comments for PSMA1** | 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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