

# Recombinant human PSMA1 protein

Catalog Number: ATGP1241

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-263aa

### UniProt No.

P25786

### NCBI Accession No.

NP\_002777

### Alternative Names

Proteasome subunit alpha type-1 isoform 2, HC2, Nu, PROS30

## PRODUCT SPECIFICATION

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### Molecular Weight

32 kDa (286aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 2mM DTT, 0.15M NaCl.

### Purity

> 95% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

PSMA1 is a prosomal protein involved in a nonlysosomal ATP/ubiquitin-dependent proteolytic pathway. The protein 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. This protein highly expressed in prostate epithelium. Recombinant human PSMA1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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## Amino acid Sequence

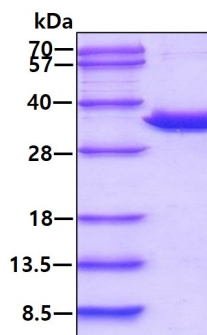
<MGSSHHHHHH SSGLVPRGSH MGS>MFRNQYD NDVTWSPQG RIHQIEYAME AVKQGSATVG LSKKTHAVLV  
ALKRAQSELA AHQKKILHVD NHIGISIAGL TADARLLCNF MRQECLDSRF VFDRPLPVSRLVSLIGSKTQ IPTQRYGRRP  
YGVGLLIAGY DDMGPHIFQT CPSANYFDCR AMSIGARSQS ARTYLERHMS EFMECNLNEL VKHGLRALRE TLPAEQDLTT  
KNVSIGIVGK DLEFTIYDDD DVSPFLEGLE ERPQRKAQPA QPADEPAEKA DEPMEH

## General References

DeMartino GN., et al. (1991) *Biochim Biophys Acta*. 1079(1):29-38.  
Silva Pereira I., et al. (1992) *Gene*. 120(2):235-42.

## DATA

### SDS-PAGE



3 $\mu$ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.