

# Recombinant human PSMB4 protein

Catalog Number: ATGP1306

## PRODUCT INFORMATION

---

### Expression system

E.coli

### Domain

46-264aa

### UniProt No.

P28070

### NCBI Accession No.

NP\_002787

### Alternative Names

Proteasome subunit beta type-4, HN3, HsN3, PROS-26, PROS26

## PRODUCT SPECIFICATION

---

### Molecular Weight

26.6 kDa (240aa) confirmed by MALDI-TOF

### Concentration

0.5mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 30% glycerol, 0.1M NaCl

### Purity

> 90% 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

---

### Description

Proteasome subunit beta type-4, also known as PSMB4, belonged to the peptidase T1B family. The 20S Proteasome chamber contains alpha subunits (which are structural) and beta subunits (which are predominantly catalytic). The outer two rings in the proteasome consist of seven alpha subunits each and the inner two rings each consist of seven beta subunits. PSMB4 is a beta subunit of the 20S Proteasome. It is distributed throughout eukaryotic cells at a high concentration and cleaves peptides in an ATP/ubiquitin-dependent process in a non-lysosomal pathway. Recombinant human PSMB4 protein, fused to His-tag at N-terminus, was expressed in E. coli

## Recombinant human PSMB4 protein

Catalog Number: ATGP1306

and purified by using conventional chromatography techniques.

### Amino acid Sequence

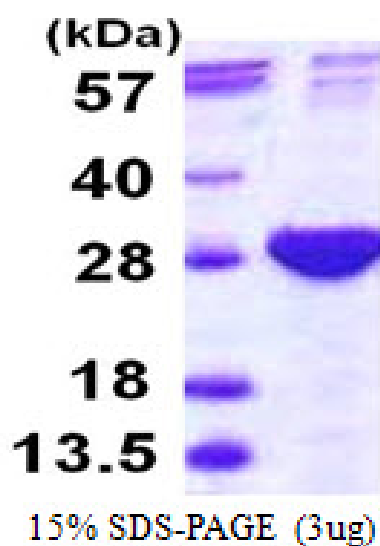
MGSSHHHHHH SGLVPRGSH MTQNPMVTGT SVLGVKFEGG VVIAADMLGS YGSLARFRNI SRIMRVNNT MLGASGDYAD  
FQYLKQVLGQ MVIDEELLGD GHSYSPRAIH SWLTRAMYSR RSKMNPLWNT MVIGGYADGE SFLGYVDMLG VAYEAPSLAT  
GYGAYLAQPL LREVLEKQPV LSQTEARDLV ERCMRVLYR DARSYNRFQI ATVTEKGVEI EGPLSTETNW DIAHMISGFE

### General References

Orlowski M., et al. (1997) *Biochemistry*. 36:13946-13953.  
McCusker D., et al. (1997) *Genomics*. 45:362-367.

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.