

# Recombinant human PSMB1 protein

Catalog Number: ATGP0275

## PRODUCT INFORMATION

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**Expression system**

E.coli

**Domain**

30-241aa

**UniProt No.**

P20618

**NCBI Accession No.**

NP\_002784.1

**Alternative Names**

Proteasome subunit beta type-1, Proteasome subunit, beta type-1, PSC5, Proteasome subunit, beta type-1 FLJ25321, HC5, KIAA1838, Macropain subunit C5, Multicatalytic endopeptidase complex subunit C5, Proteasome (prosome macropain) subunit beta type 1, Proteasome beta 1 subunit, Proteasome component C5, Proteasome gamma chain, Proteasome subunit HC5, Proteasome subunit beta type 1, PSMB 1, PSMB1.

## PRODUCT SPECIFICATION

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**Molecular Weight**

27.7 kDa (250aa) confirmed by MALDI-TOF

**Concentration**

1mg/ml (determined by Bradford assay)

**Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol

**Purity**

&gt; 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**

PSMB1 (Proteasome subunit, beta type-1) encodes a member of the proteasome B-type family, also known as the T1B family, that is a 20S core beta subunit. This 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. The main function of PSMB1

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is to degrade unnecessary or damaged proteins by proteolysis. Recombinant human PSMB1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

### Amino acid Sequence

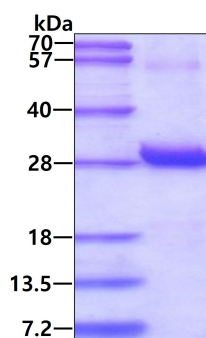
<MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSHM>FS PYVFNGGTIL AIAGEDFAIV ASDTRLSEGF  
SIHTRDSPKC YKLTDKTVIG CSGFHGDCLT LTKIIEARLK MYKHSNNKAM TTGAIAAMLS TILYSRRFFP YYVYNIIGGL  
DEEGKGAVYS FDPVGSYQRD SFKAGGSASA MLQPLLDNQV GFKNMQNVEH VPLSLDRAMR LVKDVFISAA ERDVYTGDAL  
RICIVTKEGI REETVSLRKD

### General References

Coux O., et al. (1996). *Annu Rev Biochem.* 65:801-47  
Fan J., et al. (2004). *Acta Biochem Biophys Sin.* 36(1):42-6  
Schmidt., et al. (1997). *Mol Biol.* 24:103-112

## DATA

### SDS-PAGE



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