# NKMAXBIO We support you, we believe in your research

## Recombinant human PSMB1 protein

Catalog Number: ATGP0275

## PRODUCT INFORMATION

## **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**

## **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**

> 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**

## **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



## NKMAXBio We support you, we believe in your research

## Recombinant human PSMB1 protein

Catalog Number: ATGP0275

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

## **Amino acid Sequence**

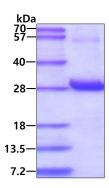
<MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSHM>FS PYVFNGGTIL AIAGEDFAIV ASDTRLSEGF SIHTRDSPKC YKLTDKTVIG CSGFHGDCLT LTKIIEARLK MYKHSNNKAM TTGAIAAMLS TILYSRRFFP YYVYNIIGGL DEEGKGAVYS FDPVGSYQRD SFKAGGSASA MLQPLLDNQV GFKNMQNVEH VPLSLDRAMR LVKDVFISAA ERDVYTGDAL RICIVTKEGI REETVSLRKD

## **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.

