

# Recombinant human PSMF1 protein

Catalog Number: ATGP1352

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-271aa

### UniProt No.

Q92530

### NCBI Accession No.

NP\_006805

### Alternative Names

Proteasome inhibitor subunit 1 isoform 1, PI31

## PRODUCT SPECIFICATION

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### Molecular Weight

31.9 kDa (291aa) confirmed by MALDI-TOF

### Concentration

0.5mg/ml (determined by Bradford assay)

### Formulation

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

### Purity

> 85% 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

PSMF1 is a protein that inhibits the activation of the proteasome by the 11S and 19S regulators. The 26S proteasome is a multicatalytic proteinase complex with a highly ordered structure composed of 2 complexes, a 20S core and a 19S regulator. The 20S core is composed of 4 rings of 28 non-identical subunits; 2 rings are composed of 7 alpha subunits and 2 rings are composed of 7 beta subunits. Recombinant human PSMF1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

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## Amino acid Sequence

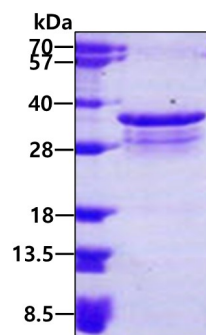
<MGSSHHHHH SSGLVPRGSH> MAGLEVL FAS AAPAITCRQD ALVCFLHWEV VTHGYCGLGV GDQPGPNDKK  
SELLPAGWNN NKDLYVLRYE YKDGSRKLLV KAITVESSMI LNVLEYGSQQ VADLTLNLDD YIDAEHLGDF HRTYKNSEEL  
RSRIVSGIIT PIHEQWEKAN VSSPHREFPP ATAREVDPLR IPPHHPTSR QPPWCDPLGP FVVGGEDLDP FGPRRGGMIV  
DPLRSGFPRA LIDPSSGLPN RLPPGAVPPG ARFDPFPGPIG TSPPGPNPDH LPPPGYDDMY L

## General References

Tanahashi N. et al. (1999) Mol Biol Rep 26: 3-9.  
Seeger M. et al. (1997) J. Biol. Chem. 272: 8145-8148.

## DATA

### SDS-PAGE



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