

# Recombinant human LMP2/PSMB9 protein

Catalog Number: ATGP0997

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

21-219aa

### UniProt No.

P28065

### NCBI Accession No.

NP\_002791.1

### Alternative Names

Proteasome subunit beta type-9, LMP2, PSMB6i, RING12

## PRODUCT SPECIFICATION

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### Molecular Weight

23.5 kDa (220aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 50mM 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

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### Description

PSMB9, also known as proteasome subunit beta type-9, is a member of the proteasome B-type family, also known as the T1B family, that is a 20S core beta subunit. This protein is located in the class II region of the MHC (major histocompatibility complex). Expression of this protein is induced by gamma interferon and this gene product replaces catalytic subunit 1 (proteasome beta 6 subunit) in the immunoproteasome. Recombinant human PSMB9 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 M>TTIMAVEFD GGVMGSDSR VSAGEAVVNR VFDKLSPLHE RIYCALSGS  
AADAQAVADMA AYQLELHGIE LEEPPLVLAA ANVVRNISK YREDLSAHLM VAGWDQREGG QVYGTGGML TRQPFAIGGS  
GSTFIYGYVD AAYKPGMSPE ECRRFTTDAI ALAMSRDGSS GGVIYLVIT AAGVDHRVIL GNELPKFYDE

### General References

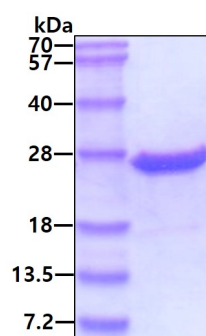
Jia M., et al, (2010) Proteomics Clin Appl. 4(10-11):816-28

Kelly A., et al, (1991) Nature 353(6345):667-8.

## DATA

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### SDS-PAGE



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