

# Recombinant human PSMA7 protein

Catalog Number: PSM0901

## PRODUCT INFORMATION

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**Expression system**

E.coli

**Domain**

1-248aa

**UniProt No.**

O14818

**NCBI Accession No.**

NP\_002783

**Alternative Names**

Proteasome alpha 7 subunit, C6, HSPC, MGC3755, RC6-1, XAPC7, Proteasome alpha 7 subunit, PSMA7, Proteasome alpha 7 subunit Proteasome (prosome macropain) subunit alpha type 7, Proteasome alpha 7 subunit, Proteasome subunit alpha 4, Proteasome subunit alpha type 7, PSMA 7, RC6 1, Proteasome subunit RC6 1, Proteasome subunit XAPC7.

## PRODUCT SPECIFICATION

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**Molecular Weight**

30 kDa (268aa) confirmed by MALDI-TOF

**Concentration**

1mg/ml (determined by Bradford assay)

**Formulation**

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

**Purity**

&gt; 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**

Proteasome alpha 7, PSMA7, is a multicatalytic proteinase complex which is characterized by its ability to cleave peptides with Arg, Phe, Tyr, Leu, and Glu adjacent to the leaving group at neutral or slightly basic pH. PSMA7, belonged to the peptidase T1A family, is a 20S core alpha subunit of proteasome. This protein was found to

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interact specifically with two subdomains of HIF-1alpha and inhibited the transactivation function of HIF-1alpha under both normoxic and hypoxia-mimicking conditions. Recombinant PSMA7 protein was expressed in *E. coli* and purified by using conventional chromatography techniques.

### Amino acid Sequence

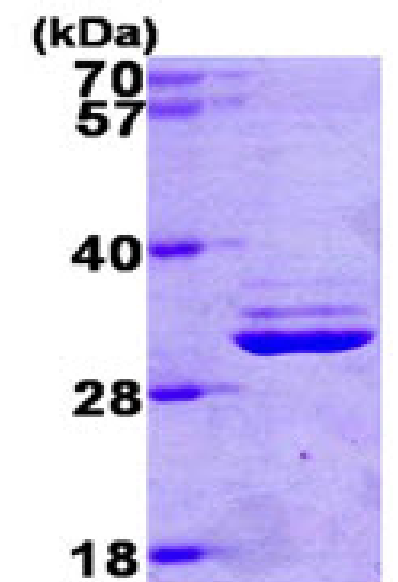
MGSSHHHHHHH SSGLVPRGSH MSYDRAITVF SPDGHLFQVE YAQEAVKKGS TAVGVRGRDI VVLGVEKKS SV AKLQDERTVR  
KICALDDNVC MAFAGLTADA RIVINRARVE CQSHRLTVED PVTVEYITRY IASLKQRYTQ SNGRRPFGIS ALIVGFDFDG  
TPRLYQTDPS GTYHAWKANA IGRGAKSVRE FLEKNYTDEA IETDDLTIKL VIKALLEVVQ SGGKNIELAV MRRDQSLKIL  
NPEEIEKYVA EIEKEKEENE KKKQKKAS

### General References

Cho S., et al. (2001) FEBS Lett. 498(1):62-6.  
Dong J, et al. (2004) J Biol Chem. 279(20):21334-42.

## DATA

### SDS-PAGE



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

15% SDS-PAGE (3ug)