# Recombinant human PSMA6 protein

Catalog Number: ATGP1308

## PRODUCT INFORMATION

**Expression system**
E.coli

**Domain**
1-246aa

**UniProt No.**
P60900

**NCBI Accession No.**
NP_002782

**Alternative Names**
Proteasome subunit alpha type 6, IOTA, p27K, PROS27

## PRODUCT SPECIFICATION

**Molecular Weight**
29.9 kDa (270aa) confirmed by MALDI-TOF

**Concentration**
0.25mg/ml (determined by Bradford assay)

**Formulation**
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 40% glycerol, 0.1M 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

**Description**
Proteasome subunit alpha type 6, also known as PSMA6, is a member of the peptidase T1A family, which is a 20S core alpha subunit. The proteasome is a multicatalytic proteinase complex with a highly ordered ring-shaped 20S core structure. The core structure 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. PSMA6 is distributed throughout eukaryotic cells at a high concentration and cleave peptides in an ATP/ubiquitin-dependent process in a non-lysosomal pathway. Recombinant human PSMA6 protein, fused to His-tag at N-terminus, was expressed in E. coli and

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purified by using conventional chromatography techniques.

**Amino acid Sequence**

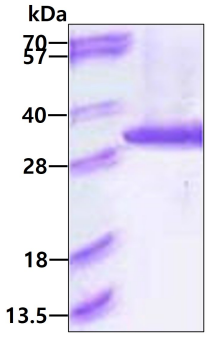
<MGSSHHHHHH SSGLVPRGSH MGSH>MSRGSS AGFDRHITIF SPEGRLYQVE YAFKAINQGG LTSVAVRGKD CAVIVTQKKV PDKLLDSSTV THLFKITENI GCVMTGMTAD SRSQVQRARY EAANWKYKYG YEIPVDMLCK RIADISQVYT QNAEMRPLGC CMILIGIDEE QGPQVYKCDP AGYYCGFKAT AAGVKQTEST SFLEKKVKKK FDWTFEQTVE TAITCLSTVL SIDFKPSEIE VGVVTVENPK FRILTEAEID AHLVALAERD

**General References**

Nandi D., et al. (2006) J Biosci. 31:137-155.
Kristensen P., et al. (1995) Biochem Biophys Res Commun. 205:1785-1789.

## DATA

**SDS-PAGE**




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