## 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

$0.25 \mathrm{mg} / \mathrm{ml}$ (determined by Bradford assay)

## Formulation

Liquid in. 20 mM Tris- HCl buffer (pH 8.0) containing $1 \mathrm{mM} \mathrm{DTT} 40 \$,$% glycerol, 0.1 \mathrm{M} \mathrm{NaCl}$

## Purity

> 90\% by SDS-PAGE

## Tag

His-Tag

## Application

SDS-PAGE

## Storage Condition

Can be stored at +2 C to +8 C for 1 week. For long term storage, aliquot and store at -20 C 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

## NKMAXBio we supoor you, we beslowee nyour sesearch

## Recombinant human PSMA6 protein

Catalog Number: ATGP1308
purified by using conventional chromatography techniques.

## Amino acid Sequence

MGSSHHHHHH SSGLVPRGSH MGSHMSRGSS 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


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

## 15\% SDS-PAGE (3ug)

