

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

MGSSHHHHHHH SGLVPRGSH MGSMSRGSS AGFDRHITIF SPEGRLYQVE YAFKAINQGG LTVAVRGKD CAVIVTQKKV
PDKLLDSSSTV 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.

15% SDS-PAGE (3ug)