

Recombinant human PSMA3 protein

Catalog Number: ATGP1287

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-255aa

UniProt No.

P25788

NCBI Accession No.

NP_002779

Alternative Names

Proteasome (prosome macropain) subunit alpha type 3, Proteasome (prosome, macropain) subunit, alpha type 3, HC8, MGC12306, MGC32631, PSC3

PRODUCT SPECIFICATION

Molecular Weight

30.5 kDa (275aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 1mM DTT, 0.15M NaCl.

Purity

> 95% 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

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. Proteasomes are distributed throughout eukaryotic cells at a high concentration and cleave peptides in an ATP/ubiquitin-dependent process in a non-lysosomal pathway. This gene encodes a member of the peptidase T1A family that is a 20S core alpha subunit. Two alternative transcripts

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encoding different isoforms have been identified. Recombinant human PSMA3 protein, fused to His-tag at N-terminus, was expressed in *E. coli* and purified by using conventional chromatography techniques.

Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH> MSSIGTGYDL SASTFSPDGR VFQVEYAMKA VENSSTAIGI RCKDGVVFGV
EKLVLKLYE EGSNKRLFNV DRHVGMAVAG LLADARSLAD IAREEASNFR SNFGYNIPLK HLADRVAMYV HAYTLYSAVR
PFGCSFMLGS YSVNDGAQLY MIDPSGVSYG YWGCAIGKAR QAAKTEIEKL QMKEMTCRDI VKEVAKIYI VHDEVKDKAF
ELELSWVGEL TNGRHEIVPK DIREEAKEYA KESLKEEDES DDDNM

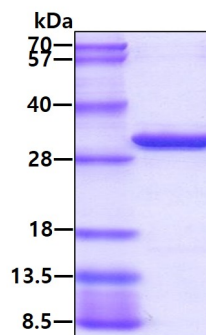
General References

Kristensen P., et al. (1995) *Biochem Biophys Res Commun.* 207(3):1059.

Wenzel T., et al. (1995) *Nat Struct Biol.* 2(3):199-204.

DATA

SDS-PAGE



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