

Product information

PSMA3, 1-255 aa

Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP1287

Full name: Proteasome (prosome, macropain) subunit, alpha type 3

NCBI Accession No.: NP_002779

Synonyms: HC8, MGC12306, MGC32631, PSC3.

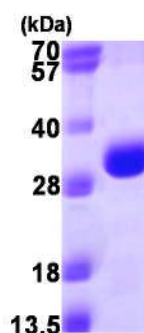
Description: The proteasome is a multicatalytic proteinase complex with a highly ordered ring-shaped 20S core structure. The core structure is composed of 4 rings of 28 non-identical subunits; 2 rings are composed of 7 alpha subunits and 2 rings are composed of 7 beta subunits. Proteasomes are distributed 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 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.

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

Molecular Weight: 30.6 kDa (275aa), confirmed by MALDI-TOF

Purity: > 95 % by SDS - PAGE

Concentration: 1 mg/ml (determined by Bradford)



15% SDS-PAGE (3ug)

Sequences of amino acids:

MGSSHHHHHH SSGLVPRGSH MSSIGTG YDL SASTFSPDGR VFQVEYAMKA VENSSTAIGI RCKDGVVFGV EKLVL SKLYE EGSNKRLFNV DRHVGM AVAG LLADARSLAD IAREEASNFR SNFGYNIP LK HLADRVAMYV HAYTLYS AVR PFGCSFMLGS YSVNDGAQLY MIDPSGVSYG YWGCAIGKAR QAAKTEIEKL QMKEMTCRDI VKEVAKI IYI VHDEVKOKAF ELELSWVGEL TNGRHEI VPK 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.

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.