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Recombinant human PSMB4 protein

Catalog Number: ATGP1306

PRODUCT INFORMATION

Expression system

E.coli

Domain

46-264aa

UniProt No.

P28070

NCBI Accession No.

NP 002787

Alternative Names

Proteasome subunit beta type-4, HN3, HsN3, PROS-26, PROS26

PRODUCT SPECIFICATION

Molecular Weight

26.6 kDa (240aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 30% 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 beta type-4, also known as PSMB4, belonged to the peptidase T1B family. The 20S Proteasome chamber contains alpha subunits (which are structural) and beta subunits (which are predominantly catalytic). The outer two rings in the proteasome consist of seven alpha subunits each and the inner two rings each consist of seven beta subunits. PSMB4 is a beta subunit of the 20S Proteasome. It is distributed throughout eukaryotic cells at a high concentration and cleaves peptides in an ATP/ubiquitin-dependent process in a non-lysosomal pathway. Recombinant human PSMB4 protein, fused to His-tag at N-terminus, was expressed in E. coli



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and purified by using conventional chromatography techniques.

Amino acid Sequence

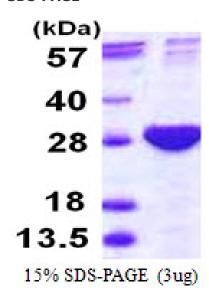
MGSSHHHHHH SSGLVPRGSH MTQNPMVTGT SVLGVKFEGG VVIAADMLGS YGSLARFRNI SRIMRVNNST MLGASGDYAD FQYLKQVLGQ MVIDEELLGD GHSYSPRAIH SWLTRAMYSR RSKMNPLWNT MVIGGYADGE SFLGYVDMLG VAYEAPSLAT GYGAYLAQPL LREVLEKQPV LSQTEARDLV ERCMRVLYYR DARSYNRFQI ATVTEKGVEI EGPLSTETNW DIAHMISGFE

General References

Orlowski M., et al. (1997) Biochemistry. 36:13946-13953. McCusker D., et al. (1997) Genomics. 45:362-367.

DATA

SDS-PAGE



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

