

Recombinant human PSMB3 protein

Catalog Number: ATGP1305

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-205aa

UniProt No.

P49720

NCBI Accession No.

NP_002786.2

Alternative Names

Proteasome subunit beta type-3, HC10-II

PRODUCT SPECIFICATION

Molecular Weight

25.1 kDa (225aa) confirmed by MALDI-TOF

Concentration

0.25mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 50% glycerol, 0.2M 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

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. An essential function of a modified proteasome, the immunoproteasome, is the processing of class I MHC peptides.. Recombinant human PSMB3 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by

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using conventional chromatography techniques.

Amino acid Sequence

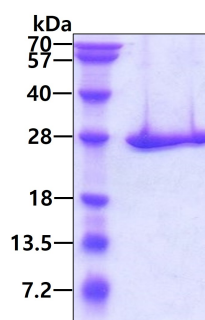
<MGSSHHHHHH SSGLVPRGSH> MSIMSYNGGA VMAMKGKNCV AIAADRRFGI QAQMVTDFQ KIFPMGDRLY
IGLAGLATDV QTVAQRLKFR LNLVELKEGR QIKPYTLMSM VANLLYEKRF GPYYTEPVIA GLDPKTFKPF ICSLDLIGCP
MVTDDFVVSQ TCAEQMYGMC ESLWEPNMDP DHLFETISQA MLNAVDRDAV SGMGVIVHII EKDKITRRTL KARMD

General References

Huang L., et al. (2006) Meth Enzymil. 405:187-236.
Madding L S., et al. (2006) J Bacteriol. 189:583-590.

DATA

SDS-PAGE



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