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Recombinant human PSMB5 protein

Catalog Number: ATGP0850

PRODUCT INFORMATION

Expression system

E.coli

Domain

60-263aa

UniProt No.

P28074

NCBI Accession No.

NP 002788

Alternative Names

Proteasome (prosome macropain) subunit beta type 5., LMPX, MB1, MGC104214, X.

PRODUCT SPECIFICATION

Molecular Weight

26.7 kDa (241aa) confirmed by MALDI-TOF

Concentration

0.25mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.5) containing 50% glycerol, 1mM DTT, 0.15M 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

PSMB5 is a member of the proteasome B-type family that is a 20S core beta subunit in the proteasome. This catalytic subunit is not present in the immunoproteasome and is replaced by catalytic subunit 3i (proteasome beta 8 subunit). PSMB5 has an ATP dependent proteolytic activity and involved in an ATP/ubiquitin dependent non lysosomal proteolytic pathway. Recombinant human PSMB5 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.



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Amino acid Sequence

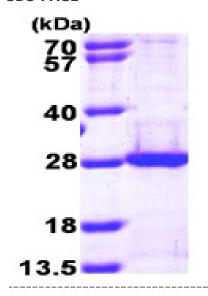
MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMTTT LAFKFRHGVI VAADSRATAG AYIASQTVKK VIEINPYLLG TMAGGAADCS FWERLLARQC RIYELRNKER ISVAAASKLL ANMVYQYKGM GLSMGTMICG WDKRGPGLYY VDSEGNRISG ATFSVGSGSV YAYGVMDRGY SYDLEVEQAY DLARRAIYQA TYRDAYSGGA VNLYHVREDG WIRVSSDNVA DLHEKYSGST P

General References

Coux O., et al. (1996) Annu Rev Biochem. 65:801-47. Wenzel T., et al. (1995) Nat Struct Biol. 2(3):199-204.

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

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

