

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

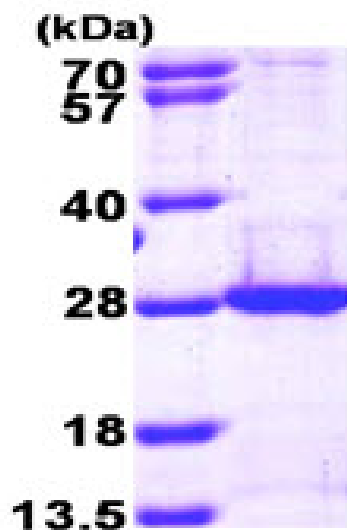
MRGSHHHHHH GMASMTGGGQ MGRDLYDDDD KDRWGSMTT LAFKFRHGVI VAADSRATAG AYIASQTVKK
VIEINPYLLG TMAGGAADCS FWERLLARQC RIYELRNKER ISVAAASKLL ANMVYQYKGM GLSMGTMICG WDKRGPGLYY
VDSEGNRISG ATFSVGSQSV YAYGVMDRGY SYDLEVEQAY DLARRAIYQA TYRDAYSGGA VNLYHVREDG WIRVSSDNVA
DLHEKYSGST P

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



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

15% SDS-PAGE (3ug)