

Recombinant Human PSMB5, 60-263 aa, His-tagged

Cat. No. PSMB5-3374H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human PSMB5 protein, fused to His-tag at N-terminus, was expressed in <i>E.coli</i> and purified by using conventional chromatography techniques. MW = 26.7 kDa (241aa).
Species	Human
Source	E.coli
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.
Form	Liquid. In 20mM Tris-HCl buffer(pH 8.0) containing 20% glycerol 5mM DTT, 0.2M NaCl.
Purity	> 90% by SDS - PAGE.
Concentration	0.25 mg/ml (determined by Bradford assay).
Sequences Of Amino Acids	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMTTT LAFKFRHGV VAADSRATAG AYIASQTVKK VIEINPYLLG TMAGGAADCS FWERLLARQC RIYELRNKER ISVAAASKLL ANMVYQYKGM GLSMGTMICG WDKRGPGLYY VDSEGNRISG ATFSVGSGSV YAYGVMDRGY SYDLEVEQAY DLARRAIYQA

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TYRDAYSSGGA VNLYHVREDG WIRVSSDNVA DLHEKYSGST P.

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.

Pathways

Proteasome; Apoptosis; Cell Cycle Checkpoints; Cell Cycle, Mitotic; DNA Replication; HIV Infection; Metabolism of amino acids and derivatives; Signaling by Wnt

GENE INFORMATION

Gene Name

PSMB5 proteasome (prosome, macropain) subunit, beta type, 5 [Homo sapiens]

Synonyms

proteasome (prosome, macropain) subunit, beta type, 5; X; MB1; LMPX; MGC104214; PSMB5; proteasome subunit beta type-5; proteasome chain 6; proteasome subunit X; proteasome subunit MB1; macropain epsilon chain; proteasome epsilon chain; proteasome beta 5 subunit; proteasome catalytic subunit 3; proteasome subunit, beta type, 5; PSX large multifunctional protease X; multicatalytic endopeptidase complex epsilon chain; Multicatalytic endopeptidase complex epsilon chain; Proteasome epsilon chain; Proteasome subunit X; Proteasome chain 6; Proteasome subunit MB1; Macropain epsilon chain

Gene ID

5693

mRNA Refseq

NM_001130725

Protein Refseq

NP_001124197

MIM

600306

UniProt ID

P28074

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Chromosome Location	14q11.2
Function	peptidase activity;' protein binding; threonine-type endopeptidase activity

PDB rendering based on 1iru.

