

Recombinant Human PSMB5, His-tagged

Cat. No. PSMB5-31226TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human PSMB5 with an N terminal His tag; 241 amino acids with tag, Predicted MWt 26.7 kDa.
Species	Human
Source	E.coli
ProteinLength	204 amino acids
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. This gene encodes a member of the proteasome B-type family, also known as the T1B 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). Multiple transcript variants encoding different isoforms have been found for this gene.
Conjugation	HIS
Molecular Weight	26.700kDa inclusive of tags

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Form	Liquid
Purity	>90% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 20% Glycerol, 0.2M Sodium chloride, 5mM DTT, 20mM Tris HCl, pH 8.0
Storage	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MRGSHHHHHHGMASMTGGQQMGRDLYDDDDKDRWGSMTTTLAFKFRHGVIVAA DSRATAGAYIASQTVKKVIEINPYLLGTMAGGAADCSFWERLLARQCRIYELRNKERI SVAAASKLLANMVYQYKGMGLSMGMTMICGWDKRGPGLYYVDSEGNRISGATFSVG SGSVYAYGVMDRGYSYDLEVEQAYDLARRAIYQATYRDAYS GGAVNLYHVREDGW IRVSSDNVADLHEKYS GSTP
Sequence Similarities	Belongs to the peptidase T1B family.

GENE INFORMATION

Gene Name	PSMB5 proteasome (prosome, macropain) subunit, beta type, 5 [Homo sapiens]
Official Symbol	PSMB5
Synonyms	PSMB5; proteasome (prosome, macropain) subunit, beta type, 5; proteasome subunit beta type-5; MB1; X;
Gene ID	5693
mRNA Refseq	NM_001130725

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Protein Refseq	NP_001124197
MIM	600306
Uniprot ID	P28074
Chromosome Location	14q11.2
Pathway	APC/C-mediated degradation of cell cycle proteins, organism-specific biosystem; APC/C:Cdc20 mediated degradation of Securin, organism-specific biosystem; APC/C:Cdc20 mediated degradation of mitotic proteins, organism-specific biosystem; APC/C:Cdh1 mediated degradation of Cdc20 and other APC/C:Cdh1 targeted proteins in late mitosis/early G1, organism-specific biosystem; Activation of APC/C and APC/C:Cdc20 mediated degradation of mitotic proteins, organism-specific biosystem;
Function	peptidase activity; protein binding; threonine-type endopeptidase activity;

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