

Recombinant Human PSMB3, His-tagged

Cat. No. PSMB3-31208TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length protein, corresponding to amino acids 1-205 of Human Proteasome beta 6, with an N-terminal His tag, 225aa, 25.1 kDa.
Species	Human
Source	E.coli
ProteinLength	246 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. Pseudogenes have been identified on chromosomes 2 and 12.
Conjugation	HIS
Molecular Weight	25.100kDa inclusive of tags
Form	Liquid

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Purity	>90% by SDS-PAGE
Storage buffer	pH: 8.00 Constituents: 0.32% Tris HCl, 0.02% DTT, 50% Glycerol, 1.17% Sodium chloride
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	MGSSHHHHHHSSGLVPRGSHMSIMSYNGGAVMAMKGKNCV AIAADRRFGIQAQM VTTDFQKIFPMGDRLYIGLAGLATDV QTVAQRLKFRLNLYELKEGRQIKPYTLMSMV ANLLYEKRF GPYYTEPVIAGLDPKTFKPFICSLDLIGCPMVTDDFVVSG TCAEQMYG MCESLWEPNMDPDHLFETISQAMLNAVDRDAV SGMGVIVHIIKDKITTRTLKARMD
Sequence Similarities	Belongs to the peptidase T1B family.

GENE INFORMATION

Gene Name	PSMB3 proteasome (prosome, macropain) subunit, beta type, 3 [Homo sapiens]
Official Symbol	PSMB3
Synonyms	PSMB3; proteasome (prosome, macropain) subunit, beta type, 3; proteasome subunit beta type-3; HC10 II; MGC4147;
Gene ID	5691
mRNA Refseq	NM_002795
Protein Refseq	NP_002786

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MIM	602176
Uniprot ID	P49720
Chromosome Location	17q12
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; threonine-type endopeptidase activity;