

Recombinant Human PSMB6, His-tagged

Cat. No. PSMB6-29975TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human Proteasome 20S beta 6 with N terminal His tag; 226 amino acids with tag, Predicted MWt 24.2 kDa.
Species	Human
Source	E.coli
ProteinLength	205 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 1i (proteasome beta 9 subunit).
Conjugation	HIS
Molecular Weight	24.200kDa inclusive of tags

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Form	Liquid
Purity	by SDS-PAGE
Storage buffer	pH: 8.00 Constituents: 0.32% Tris HCl, 10% Glycerol, 0.02% DTT, 0.88% 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	MGSSHHHHHHSSGLVPRGSHMTTIMAVQFDGGVVLGADSR TTTGSYIANRVTDKL TPIHDRIFCCRS GSAADTQAVADAV TYQLGFHSIELNEPPLVHTAASLFKEMCYRYR EDLMAGII IAGWDPQEGGQVYSVPMGGMMVRQSFAIGGSGSSYIYGYV DATYREG MTKEECLQFTANALALAMERDGSSGGVIRLAAI AESGVERQVLLGDQIPKFAVATLP PA
Sequence Similarities	Belongs to the peptidase T1B family.

GENE INFORMATION

Gene Name	PSMB6 proteasome (prosome, macropain) subunit, beta type, 6 [Homo sapiens]
Official Symbol	PSMB6
Synonyms	PSMB6; proteasome (prosome, macropain) subunit, beta type, 6; proteasome subunit beta type-6; DELTA; Y;
Gene ID	5694
mRNA Refseq	NM_002798

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Protein Refseq	NP_002789
MIM	600307
Uniprot ID	P28072
Chromosome Location	17p13
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	endopeptidase activity; peptidase activity; threonine-type endopeptidase activity;

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