Recombinant Human PSMB5 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. PSMB5-6693H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PSMB5 MS Standard C13 and N15-labeled recombinant protein (NP_002788) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	28.5 kDa
AA Sequence	MALASVLERPLPVNQRGFFGLGGRADLLDLGPGSLSDGLSLAAPGWGVPEEPGIEM

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	LHGTTTLAFKFRHGVIVAADSRATAGAYIASQTVKKVIEINPYLLGTMAGGAADCSFW ERLLARQCRIYELRNKERISVAAASKLLANMVYQYKGMGLSMGTMICGWDKRGPGL YYVDSEGNRISGATFSVGSGSVYAYGVMDRGYSYDLEVEQAYDLARRAIYQATYRD AYSGGAVNLYHVREDGWIRVSSDNVADLHEKYSGSTPTRTRPLEQKLISEEDLAAN DILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 μg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	PSMB5 proteasome 20S subunit beta 5 [Homo sapiens (human)]
Official Symbol	PSMB5
Synonyms	PSMB5; proteasome (prosome, macropain) subunit, beta type, 5; proteasome subunit beta type-5; MB1; X; 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; LMPX; MGC104214;
Gene ID	5693

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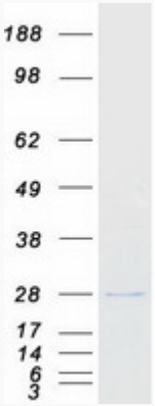
mRNA Refseq	NM_002797
Protein Refseq	NP_002788
MIM	600306
UniProt ID	P28074
SDS-PAGE	

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