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Product datasheet for TP309326

PSMB5 (NM_002797) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human proteasome (prosome, macropain) subunit, beta type, 5 (PSMB5), transcript variant 1
Species:	Human
Expression Host:	HEK293T
Tag:	C-Myc/DDK
Predicted MW:	28.3 kDa
Concentration:	>50 ug/mL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_002788
Locus ID:	5693
UniProt ID:	P28074
RefSeq Size:	1311
Cytogenetics:	14q11.2
RefSeq ORF:	789
Synonyms:	LMPX; MB1; X

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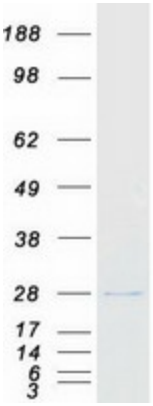
Summary: The proteasome is a multicatalytic proteinase complex with a highly ordered ring-shaped 20S core structure. The core structure is composed of 4 rings of 28 non-identical subunits; 2 rings are composed of 7 alpha subunits and 2 rings are composed of 7 beta subunits. Proteasomes are distributed 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. [provided by RefSeq, Jan 2009]

Protein Families: Protease

Protein Pathways: Proteasome

Product images:



Coomassie blue staining of purified PSMB5 protein (Cat# TP309326). The protein was produced from HEK293T cells transfected with PSMB5 cDNA clone (Cat# [RC209326]) using MegaTran 2.0 (Cat# [TT210002]).