Recombinant Mouse Psmb4 Protein, Myc/DDK-tagged

Cat. No. Psmb4-5180M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length proteasome (prosome, macropain) subunit, beta type 4 (Psmb4), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Component of the 20S core proteasome complex involved in the proteolytic degradation of most intracellular proteins. This complex plays numerous essential roles within the cell by associating with different regulatory particles. Associated with two 19S regulatory particles, forms the 26S proteasome and thus participates in the ATP-dependent degradation of ubiquitinated proteins. The 26S proteasome plays a key role in the maintenance of protein homeostasis by removing misfolded or damaged proteins that could impair cellular functions, and by removing proteins whose functions are no longer required. Associated with the PA200 or PA28, the 20S proteasome mediates ubiquitin-independent protein degradation. This type of proteolysis is required in several pathways including spermatogenesis (20S-PA200 complex) or generation of a subset of MHC class I-presented antigenic peptides (20S-PA28 complex). SMAD1/OAZ1/PSMB4 complex mediates the degradation of the CREBBP/EP300 repressor SNIP1.
Molecular Mass	29.1 kDa

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Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 μg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Psmb4 proteasome (prosome, macropain) subunit, beta type 4 [Mus musculus (house mouse)]
Official Symbol	Psmb4
Synonyms	PSMB4; proteasome (prosome, macropain) subunit, beta type 4; proteasome subunit beta type-4; proteasome chain 3; macropain beta chain; proteasome beta chain; low molecular mass protein 3; multicatalytic endopeptidase complex beta chain; Pros-27
Gene ID	19172
mRNA Refseq	NM_008945
Protein Refseq	NP_032971
UniProt ID	P99026

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