

## Recombinant Mouse Psmb1 Protein, Myc/DDK-tagged

**Cat. No.** Psmb1-5178M    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| <b>Product Overview</b> | Purified recombinant protein of mouse full-length proteasome (prosome, macropain) subunit, beta type 1 (Psmb1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Description</b>      | 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). |
| <b>Molecular Mass</b>   | 26.4 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Purity</b>           | > 80% as determined by SDS-PAGE and Coomassie blue staining                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

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

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                                                             |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | Psmb1 proteasome (prosome, macropain) subunit, beta type 1 [ Mus musculus (house mouse) ]                                                                                                                                                                                                                                   |
| <b>Official Symbol</b> | Psmb1                                                                                                                                                                                                                                                                                                                       |
| <b>Synonyms</b>        | PSMB1; proteasome (prosome, macropain) subunit, beta type 1; proteasome subunit beta type-1; macropain subunit C5; proteasome subunit C5; proteasome gamma chain; proteasome component C5; component C5 of proteasome; proteasome beta-subunit C5; multicatalytic endopeptidase complex subunit C5; Lmpc5; C81484; AA409053 |
| <b>Gene ID</b>         | 19170                                                                                                                                                                                                                                                                                                                       |
| <b>mRNA Refseq</b>     | NM_011185                                                                                                                                                                                                                                                                                                                   |
| <b>Protein Refseq</b>  | NP_035315                                                                                                                                                                                                                                                                                                                   |
| <b>UniProt ID</b>      | O09061                                                                                                                                                                                                                                                                                                                      |

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