

Recombinant Mouse Psme4 Protein, MYC/DDK-tagged

Cat. No. Psme4-229M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of full-length mouse proteasome (prosome, macropain) activator subunit 4 (Psme4), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Associated component of the proteasome that specifically recognizes acetylated histones and promotes ATP- and ubiquitin-independent degradation of core histones during spermatogenesis and DNA damage response. Recognizes and binds acetylated histones via its bromodomain-like (BRDL) region and activates the proteasome by opening the gated channel for substrate entry. Binds to the core proteasome via its C-terminus, which occupies the same binding sites as the proteasomal ATPases, opening the closed structure of the proteasome via an active gating mechanism. Component of the spermatoproteasome, a form of the proteasome specifically found in testis: binds to acetylated histones and promotes degradation of histones, thereby participating actively to the exchange of histones during spermatogenesis. Also involved in DNA damage response in somatic cells, by promoting degradation of histones following DNA double-strand breaks.
Molecular Mass	211.6 kDa
Purity	>80%, as determined by SDS-PAGE and Coomassie blue staining

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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 ug/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	Psme4 proteasome (prosome, macropain) activator subunit 4 [Mus musculus (house mouse)]
Official Symbol	Psme4
Synonyms	Psme4; proteasome (prosome, macropain) activator subunit 4; TEMO; AA409398; AU041366; mKIAA0077; proteasome activator complex subunit 4; proteasome activator PA200
Gene ID	103554
mRNA Refseq	NM_134013
Protein Refseq	NP_598774
UniProt ID	Q5SSW2

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