

Recombinant Mouse Psmd14 Protein, Myc/DDK-tagged

Cat. No. Psmd14-5192M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length proteasome (prosome, macropain) 26S subunit, non-ATPase, 14 (Psmd14), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Component of the 26S proteasome, a multiprotein complex involved in the ATP-dependent degradation of ubiquitinated proteins. This complex plays a key role in the maintenance of protein homeostasis by removing misfolded or damaged proteins, which could impair cellular functions, and by removing proteins whose functions are no longer required. Therefore, the proteasome participates in numerous cellular processes, including cell cycle progression, apoptosis, or DNA damage repair. The PSMD14 subunit is a metalloprotease that specifically cleaves 'Lys-63'-linked polyubiquitin chains within the complex. Plays a role in response to double-strand breaks (DSBs): acts as a regulator of non-homologous end joining (NHEJ) by cleaving 'Lys-63'-linked polyubiquitin, thereby promoting retention of JMJD2A/KDM4A on chromatin and restricting TP53BP1 accumulation. Also involved in homologous recombination repair by promoting RAD51 loading.
Molecular Mass	34.6 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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	Psmd14 proteasome (prosome, macropain) 26S subunit, non-ATPase, 14 [<i>Mus musculus</i> (house mouse)]
Official Symbol	Psmd14
Synonyms	PSMD14; proteasome (prosome, macropain) 26S subunit, non-ATPase, 14; 26S proteasome non-ATPase regulatory subunit 14; MAD1; 26S proteasome non-ATPase subunit; proteasome 26S subunit, non-ATPase 14; 26S proteasome-associated pad1 homolog; 26S proteasome regulatory subunit rpn11; Pad1; Poh1; rpm11; AA986732; 2610312C03Rik; 3200001M20Rik
Gene ID	59029
mRNA Refseq	NM_021526
Protein Refseq	NP_067501
UniProt ID	O35593

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