

Recombinant Human PSMD7, His-tagged

Cat. No. PSMD7-31228TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 53-324 of Human PSMD7 with an N terminal His tag. Predicted MWt: 32 kDa,
Species	Human
Source	E.coli
ProteinLength	53-324 a.a.
Description	The 26S proteasome is a multicatalytic proteinase complex with a highly ordered structure composed of 2 complexes, a 20S core and a 19S regulator. The 20S core 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. The 19S regulator is composed of a base, which contains 6 ATPase subunits and 2 non-ATPase subunits, and a lid, which contains up to 10 non-ATPase 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 non-ATPase subunit of the 19S regulator. A pseudogene has been identified on chromosome 17.
Conjugation	HIS
Form	Lyophilised:Reconstitute with 146 µl aqua dest.

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Storage buffer	Preservative: None Constituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	SFAVPFDEDDKDDSVWFLDHDYLENMYGMFKKVNARERIV GWYHTGPKLHKNDIAI NELMKRYCPNSVLVIDVKPKD LGLPTEAYISVEEVHDDGTPTSSTFEHVTSEIGAE AE EVGVEHLLRDIKDTTVGTLTSQRITNQVHGLKGLNSKLLDI RSYLEKVATGKLPINH QIIYQLQDVFNLLPDVSLQEFV KAFYLKTNDQMVVVYLASLIRSVVALHNLINNKIANR D AEKKEGQEKEESKKDRKEDKEKDKDKEKSDVKKEEKKE KK
Sequence Similarities	Belongs to the peptidase M67A family.Contains 1 MPN (JAB/Mov34) domain.
GENE INFORMATION	
Gene Name	PSMD7 proteasome (prosome, macropain) 26S subunit, non-ATPase, 7 [Homo sapiens]
Official Symbol	PSMD7
Synonyms	PSMD7; proteasome (prosome, macropain) 26S subunit, non-ATPase, 7; proteasome (prosome, macropain) 26S subunit, non ATPase, 7 (Mov34 homolog); 26S proteasome non-ATPase regulatory subunit 7; MOV34; Mov34 homolog; P40; Rpn8; S12;
Gene ID	5713
mRNA Refseq	NM_002811
Protein Refseq	NP_002802

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MIM	157970
Uniprot ID	P51665
Chromosome Location	16q22.3
Pathway	APC/C-mediated degradation of cell cycle proteins, organism-specific biosystem; APC/C:Cdc20 mediated degradation of Securin, organism-specific biosystem; APC/C:Cdc20 mediated degradation of mitotic proteins, organism-specific biosystem; APC/C:Cdh1 mediated degradation of Cdc20 and other APC/C:Cdh1 targeted proteins in late mitosis/early G1, organism-specific biosystem; Activation of APC/C and APC/C:Cdc20 mediated degradation of mitotic proteins, organism-specific biosystem;

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