

Recombinant Human PSMD7 Protein, His-tagged

Cat. No. PSMD7-424H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PSMD7(Met1~Lys324) fused with His tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Met1~Lys324
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.
Form	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Molecular Mass	40.8kDa

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Endotoxin	<1.0EU per 1g (determined by the LAL method)
Purity	> 92%
Applications	Positive Control; Immunogen; SDS-PAGE; WB. If bio-activity of the protein is needed, please check active protein.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Reconstitution	Reconstitute in PBS or others.

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; proteasome subunit p40; 26S proteasome regulatory subunit S12; 26S proteasome regulatory subunit rpn8; Moloney leukemia virus-34 proviral integration; proteasome (prosome, macropain) 26S subunit, non-ATPase, 7 (Mov34 homolog);

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Gene ID	5713
mRNA Refseq	NM_002811
Protein Refseq	NP_002802
MIM	157970
UniProt ID	P51665

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