

Recombinant Human PSMD8 Protein, His-tagged

Cat. No. PSMD8-2636H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PSMD8 Protein (Met1-Val350) with a N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Met1-Val350
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 1.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 43.3 kDa Accurate Molecular Mass: 44 kDa

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Endotoxin	<1.0 EU per 1g (determined by the LAL method).
Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
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.
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	PSMD8 proteasome (prosome, macropain) 26S subunit, non-ATPase, 8 [Homo sapiens (human)]
Official Symbol	PSMD8
Synonyms	PSMD8; proteasome (prosome, macropain) 26S subunit, non-ATPase, 8; 26S proteasome non-ATPase regulatory subunit 8; HIP6; HYPF; Nin1p; p31; Rpn12; S14; 26S proteasome regulatory subunit S14; 26S proteasome regulatory subunit p31; 26S proteasome regulatory subunit RPN12; MGC1660;

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Gene ID	5714
mRNA Refseq	NM_002812
Protein Refseq	NP_002803
MIM	617844
UniProt ID	P48556

