

Recombinant Human PSMD8

Cat. No. PSMD8-30431TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human PSMD8 with N terminal proprietary tag; Predicted MW 54.27 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	257 amino acids
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.
Molecular Weight	54.270kDa inclusive of tags
Form	Liquid

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Purity	Proprietary Purification
Storage buffer	pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.
Sequences of amino acids	MYEQLKGEWNRKSPNLSKCGEELGRLKLVLLELNFLPTTG TKLTKQQLILARDILEIG AQWSILRKDIPSFERYMAQLKC YYFDYKEQLPESAYMHQLLGLNLLFLLSQNRVAEF HTELE RLPKDIQTNVYIKHPVSLEQYLMEGSYNKVFLAKGNIPA ESYTFFIDILLDTI RDEIAGCIEKAYEKILFTEATRILFF NTPKKMTDYAKKRGWVLGPNNYYSFASQQQK PEDTTIPST ELAKQVIEYARQLEMIV
Sequence Similarities	Belongs to the proteasome subunit S14 family.

GENE INFORMATION

Gene Name	PSMD8 proteasome (prosome, macropain) 26S subunit, non-ATPase, 8 [Homo sapiens]
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;
Gene ID	5714
mRNA Refseq	NM_002812
Protein Refseq	NP_002803

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Uniprot ID	P48556
Chromosome Location	19q13.2
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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