

# Recombinant Human PSMD9 Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** PSMD9-4409H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	PSMD9 MS Standard C13 and N15-labeled recombinant protein (NP_002804) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Description</b>	<p>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. Three transcript variants encoding two different isoforms have been found for this gene.</p>
<b>Molecular Mass</b>	24.5 kDa
<b>AA Sequence</b>	MSDEEARQSGGSSQAGVVTVSDVQELMRRKEEIEAQIKANYDVLESQKGIGMNEPLVDCEGYPRSDVDLYQVRTARHNIICLQNDHKAVMKQVEEALHQLHARDKEKQARD

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MAEAHKEAMSRKLGQSESQGPPRAFAKVNSISPGSPASIAGLQVDDEIVEFGSVNT  
QNFQSLHNIGSVVQHSEGKPLNVTVIRRGEKHLRLVPTRWAGKLLGCNIPLQRT  
RTRPLEQKLISEEDLAANDILDYKDDDDKV

**Purity** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Stability** Stable for 3 months from receipt of products under proper storage and handling conditions.

**Storage** Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

**Concentration** 50 µg/mL as determined by BCA

**Storage Buffer** 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

## GENE INFORMATION

**Gene Name** [PSMD9 proteasome 26S subunit, non-ATPase 9 \[ Homo sapiens \(human\) \]](#)

**Official Symbol** [PSMD9](#)

**Synonyms** PSMD9; proteasome (prosome, macropain) 26S subunit, non-ATPase, 9; 26S proteasome non-ATPase regulatory subunit 9; p27; Rpn4; homolog of rat Bridge 1; 26S proteasome regulatory subunit p27; proteasome 26S non-ATPase regulatory subunit 9; MGC8644;

**Gene ID** [5715](#)

**mRNA Refseq** [NM\\_002813](#)

**Protein Refseq** [NP\\_002804](#)

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<b>MIM</b>	603146
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<b>UniProt ID</b>	O00233
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