

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

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

SPECIFICATION

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

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MAEAHKEAMSRKLGQSESQGPPRAFAKVNSISPGSPASIAGLQVDDEIVEFGSVNT
QNFQSLHNIGSVVQHSEGGKPLNVTVIRRGKHLRLVPTRWAGKGLLGCNIIPLQRT
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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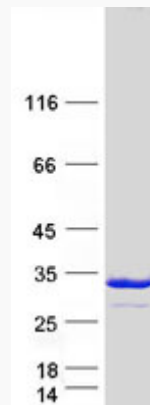
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MIM 603146

UniProt ID O00233

SDS-PAGE



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