

Recombinant Human proteasome (prosome, macropain) 26S subunit, non-ATPase, 9, His-tagged

Cat. No. PSMD9-365H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PSMD9, 1-223aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	1-223 a.a.
Description	PSMD9 acts as a chaperone during the assembly of the 26S proteasome, specifically of the base subcomplex of the PA700/19S regulatory complex (RC). During the base subcomplex assembly is part of an intermediate PSMD9:PSMC6:PSMC3 module, also known as modulator trimer complex; PSMD9 is released during the further base assembly process. Recombinant human PSMD9 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT
Molecular Mass	27.1 kDa (246aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMSEDEAR QSGGSSQAGV VTVSDVQELM RRKEEIEAQI KANYDVLESQ KGIGMNEPLV DCEGYPRSDV DLYQVRTARH NIICLQNDHK AVMKQVEEAL HQLHARDKEK QARDMAEAHK EAMSRKLGQS

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ESQGPPRAFA KVNSISPGSP ASIAGLQVDD EIVEFGSVNT QNFQSLHNIG
SVVQHSEGKP LNVTVIRRG E KHQLRLVPTR WAGKGLLGCN IIPLQR

Purity >90% by SDS - PAGE

Storage Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

Concentration 1 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name PSMD9 proteasome (prosome, macropain) 26S subunit, non-ATPase, 9 [Homo sapiens]

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

MIM 603146

UniProt ID O00233

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Chromosome Location	12q24.31-q24.32
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; Activation of NF-kappaB in B Cells, organism-specific biosystem; Adaptive Immune System, organism-specific biosystem;
Function	bHLH transcription factor binding; protein binding; transcription coactivator activity;

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