

Recombinant Human PSMD3 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. PSMD3-6294H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PSMD3 MS Standard C13 and N15-labeled recombinant protein (NP_002800) 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. This gene encodes a member of the proteasome subunit S3 family that functions as one of the non-ATPase subunits of the 19S regulator lid. Single nucleotide polymorphisms in this gene are associated with neutrophil count.
Molecular Mass	61 kDa
AA Sequence	MKQEGSARRRGADKAKPPPGGGGEQEP PPPPAPQDVEMKEEAATGGGSTGEADGK TAAAAAEHSQRELDVTLEDIKEHV KQLEKAVSGKEPRFVLRLRMLPSTSRRLNHY

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VLYKAVQGFFTSNNATRDFLLPFLEPMDEADLQFRPRTGKAASNTLLPEVEAYLQ
 LLVVIFMMNSKRYKEAQKISDDLQKISTQNRALDLVAAKCYYYHARVVEFLDKLD
 VVRSFLHARLRTATLRHDADGQATLLNLLLRNYLHYSLYDQAEKLVSKSVFPEQANN
 NEWARYLYYTGRKAIQLEYSVARRTMTNALRKAPQHTAVGFKQTVHKLLIVVELLLG
 EIPDRLQFRQPSLKRSLMPYFLTQAVRTGNLAKFNQVLDQFGEKFQADGTYTLIIRL
 RHNVIKTGVRMISLSYSRISLADIAQKLQLDSPEDAEFIVAKAIRDGVIEASINHEKGYV
 QSKEMIDIYSTREPQLAFHQIRISFCLDIHNMSVKAMRFPPKSYNKDLESAEERRERE
 QQDLEFAKEMAEDDDDSFPTTRPLEQKLISEEDLAANDILDYKDDDDKV

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	PSMD3 proteasome 26S subunit, non-ATPase 3 [Homo sapiens (human)]
Official Symbol	PSMD3
Synonyms	PSMD3; proteasome (prosome, macropain) 26S subunit, non-ATPase, 3; tissue specific transplantation antigen 2, TSTA2; 26S proteasome non-ATPase regulatory subunit 3; P58; Rpn3; S3; proteasome subunit p58; 26S proteasome regulatory subunit S3; 26S proteasome regulatory subunit RPN3; tissue specific transplantation antigen 2; RPN3; TSTA2;

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Gene ID	5709
mRNA Refseq	NM_002809
Protein Refseq	NP_002800
MIM	617676
UniProt ID	O43242
SDS-PAGE	