

## Recombinant Human PSMD4 Protein, MYC/DDK-tagged, C13 and N15-labeled

**Cat. No.** PSMD4-018H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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| <b>Product Overview</b> | PSMD4 MS Standard C13 and N15-labeled recombinant protein (NP_002801) 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 one of the non-ATPase subunits of the 19S regulator lid. Pseudogenes have been identified on chromosomes 10 and 21.</p> |
| <b>Molecular Mass</b>   | 40.7 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>AA Sequence</b>      | MVLESTMVCVDNSEYMRNGDFLPTRLQAQQDAVNIVCHSKTRSNPENNVGLITLAN<br>DCEVLTTLTPTDGRILSKLHTVQPKGKITFCTGIRVAHLALKHRQGKNHKMRIIAFVGS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

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PVEDNEKDLVKLAKRLKKEKVNVDIINFGEVEVNTTEKLTAFVNTLNGKDG TGSHLVTV  
PPGPSLADALISSPILAGEGGAMLGLGASDFEFGVDPSADPELALALRVSMEEQRQR  
QEEEEARRAAAASAAEAGIATTGTEDSDDALLKMTISQQEFGRTGLPDLSSMTEEEQI  
AYAMQMSLQGAIEFGQAESADIDASSAMDTSEPAKEEDDYDVMQDPEFLQSVLENL  
PGVDPNNEAIRNAMGSLASQATKDGKKDKKEEDKKTRTRPLEQKLISEEDLAANDIL  
DYKDDDDKV

**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** PSMD4 proteasome 26S subunit, non-ATPase 4 [ Homo sapiens (human) ]

**Official Symbol** PSMD4

**Synonyms** PSMD4; proteasome 26S subunit, non-ATPase 4; AF; AF-1; ASF; MCB1; pUB-R5; Rpn10; S5A; 26S proteasome non-ATPase regulatory subunit 4; 26S proteasome regulatory subunit S5A; S5a/antiseecretory factor protein; angiocidin; antiseecretory factor 1; multiubiquitin chain-binding protein; proteasome (prosome, macropain) 26S subunit, non-ATPase, 4

**Gene ID** 5710

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|----------------|---------------------------|
| mRNA Refseq    | <a href="#">NM_002810</a> |
| Protein Refseq | <a href="#">NP_002801</a> |
| MIM            | <a href="#">601648</a>    |
| UniProt ID     | <a href="#">P55036</a>    |

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