

# Recombinant Full Length Human PSMD3 Protein

**Cat. No.** PSMD3-408HF    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| <b>Product Overview</b> | Recombinant full length Human Proteasome 19S S3 with a N terminal proprietary tag;<br>Predicted MWt 84.74 kDa.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Source</b>           | In Vitro Cell Free System                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>ProteinLength</b>    | 534 amino acids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Description</b>      | 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. |
| <b>Form</b>             | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Molecular Mass</b>   | 84.740kDa inclusive of tags                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>AA Sequence</b>      | MKQEGSARRR GADKAKPPPG GGEQEPPPPP APQDVEMKEE AATGGGSTGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

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 45-1 Ramsey Road, Shirley, NY 11967, USA

ADGKTA AAAA EHSQRELDTV TLEDIKEHV K QLEKAVSGKE PRFVLRALRM  
 LPSTSRRLNH YVLYKAVQGF FTSNNATRDF LLPFLEPM D TEADLQFRPR  
 TGKAASTPLL PEVEAYLQLL VVIFMMNSKR YKEAQKISDD LMQKISTQNR  
 RALDLVAAKC YYYHARVYEF LDKLDVVR SF LHARLRTATL RHDADGQATL  
 LNLLLRNYLH YSLYDQAEKL VSKSVFPEQA NNNEWARYLY YTGRIKAIQL  
 EYSEARRTMT NALRKAPQHT AVGFKQTVHK LLIVVELLLG EIPDRLQFRQ  
 PSLKRSLMPY FLLTQAVRTG NLAKFNQVLD QFGEKFQADG TYTLIIRLRH  
 NVIKTGVRMI SLSYSRISLA DIAQKLQLDS PEDAEFIVAK AIRDGVIEAS  
 INHEKGYVQS KEMIDIYSTR EPQLAFHQRI SFCLDIHNMS VKAMRFPPKS  
 YNKDLES AEE RREREQQDLE FAKEMAEDDD DSFP

**Purity** Proprietary Purification

**Storage** Shipped on dry ice. Upon delivery aliquot and store at -80 centigrade. Avoid freeze / thaw cycles.

**Storage Buffer** pH: 8.00. Constituents: 0.79% Tris HCl, 0.31% Glutathione.

## GENE INFORMATION

**Gene Name** PSMD3 proteasome (prosome, macropain) 26S subunit, non-ATPase, 3 [ Homo sapiens ]

**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

**Gene ID** 5709

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|----------------|-----------|
| mRNA Refseq    | NM_002809 |
| Protein Refseq | NP_002800 |
| MIM            | 603460    |
| UniProt ID     | O43242    |

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