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# Product datasheet for TP315482

## PSMF1 (NM_178578) Human Recombinant Protein

### Product data:

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|---|---|
| **Product Type:** | Recombinant Proteins |
| **Description:** | Recombinant protein of human proteasome (prosome, macropain) inhibitor subunit 1 (PI31) (PSMF1), transcript variant 2, 20 µg |
| **Species:** | Human |
| **Expression Host:** | HEK293T |
| **Expression cDNA Clone or AA Sequence:** | >RC215482 protein sequence<br>Red=Cloning site Green=Tags(s)<br><br>MAGLEVLFASAAPAITCRQDALVCFLHWEVVTHGYCGLGVGDQPGPNDKKSELLPAGWNNNKDLYVLRY<br>E<br>YKDGSRKLLVKAITVESSMILNVLEYGSQQVADLTLNLDDYIDAEHLGDFHRTYKNSEELRSRIVSGIIT<br>PIHEQWEKANVSSPHREFPPATAREVDPLRIPPHHPHTSRQPPWCDPLGPFVVGGEDLDPFGPRRGGMI<br>V<br>DPLRSGFPRALIDPSSGLPNRLPPGAVPPGARFDPFGPIGTSPPGPNPDHLPPPGYDDMYL<br><br>TRTRPLEQKLISEEDLAANDILDYKDDDDKV | |
| **Tag:** | C-Myc/DDK |
| **Predicted MW:** | 29.6 kDa |
| **Concentration:** | >0.05 µg/µL as determined by microplate BCA method |
| **Purity:** | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| **Buffer:** | 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol |
| **Preparation:** | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps. |
| **Note:** | For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process. |
| **Storage:** | Store at -80°C. |
| **Stability:** | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |
| **RefSeq:** | NP_848693 |

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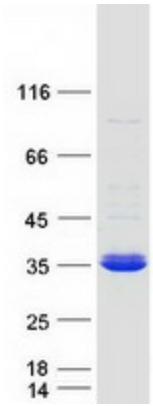
| **Locus ID:** | 9491 |
| **UniProt ID:** | Q92530 |
| **RefSeq Size:** | 3686 |
| **Cytogenetics:** | 20p13 |
| **RefSeq ORF:** | 813 |
| **Synonyms:** | PI31 |
| **Summary:** | The 26S proteasome is a multicatalytic proteinase complex with a highly ordered structure composed of 2 complexes, a 20S 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 protein that inhibits the activation of the proteasome by the 11S and 19S regulators. Alternative transcript variants have been identified for this gene. [provided by RefSeq, Jul 2008] |
| **Protein Pathways:** | Proteasome |

## Product images:




Coomassie blue staining of purified PSMF1 protein (Cat# TP315482). The protein was produced from HEK293T cells transfected with PSMF1 cDNA clone (Cat# [RC215482]) using MegaTran 2.0 (Cat# [TT210002]).