

## Product datasheet for **TP315482L**

### PSMF1 (NM\_178578) Human Recombinant Protein

#### Product data:

**Product Type:** Recombinant Proteins  
**Description:** Recombinant protein of human proteasome (prosome, macropain) inhibitor subunit 1 (PI31) (PSMF1), transcript variant 2, 1 mg

**Species:** Human

**Expression Host:** HEK293T

**Expression cDNA Clone or AA Sequence:** >RC215482 protein sequence  
**Red**=Cloning site **Green**=Tags(s)

MAGLEVLFASAAPAITCRQDALVCFLHWEVTHGYCGLGVGDQPGPNDKKSSELLPAGWNNNKDLYVLRYE  
YKDGSRKLLVKAITVESSMILNVLEYGSQQVADLTNLDDYIDAEHLGDFHRTYKNSEELRSRIVSGIIT  
PIHEQWEKANVSSPHREFPPATAREVDPLRIPPHHPHTSRQPPWCDPLGPFVVGGEDLDPFGPRRGGMIV  
DPLRSGFPRALIDPSSGLPNRLPPGAVPPGARFDPFGPIGTSPGPNPDHLPPPGYDDMYL

**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](#)

**Locus ID:** 9491



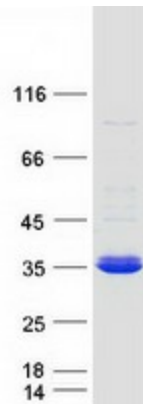
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UniProt ID: [Q92530](#), [A0A140VJT2](#)  
RefSeq Size: 3686  
Cytogenetics: 20p13  
RefSeq ORF: 813  
Synonyms: PI31

**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]).