

Product datasheet for **TP318938**

PSMF1 (NM_006814) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human proteasome (prosome, macropain) inhibitor subunit 1 (PI31) (PSMF1), transcript variant 1, 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC218938 representing NM_006814 Red =Cloning site Green =Tags(s) MAGLEVLFAAAPAITCRQDALVCFLHWEVTHGYFGLGVGDQPGPNDDKSELLPAGWNNNKDLYVLR YE YKDGSRKLLVKAITVESSMILNVLEYGSQQVADLTNLDDYIDAEHLGDFHRTYKNSEELRSRIVSGIIT PIHEQWEKANVSSPHREFPPATAREVDPLRIPPRHPHTSRQPPWCDPLGPFVVGEDLDPFGRRGMI V DPLRSGFPRALIDPSSGLPNRLPPGAVPPGARFDPFGPIGTSPPGPNPDHLPPIGYDDMYL 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:	<u>NP_006805</u>

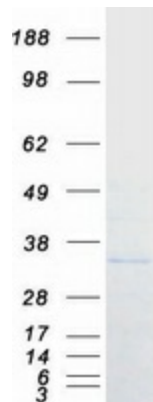

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Locus ID: 9491
UniProt ID: [Q92530](#)
RefSeq Size: 3241
Cytogenetics: 20p13
RefSeq ORF: 813
Synonyms: PI31
Summary:

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# TP318938). The protein was produced from HEK293T cells transfected with PSMF1 cDNA clone (Cat# [RC218938]) using MegaTran 2.0 (Cat# [TT210002]).