

Recombinant Full Length Human PSMF1 Protein, C-Flag-tagged

Cat. No. PSMF1-1546HFL Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human PSMF1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	29.6 kDa

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AA Sequence	MAGLEVLFAAIPAICRQDALVCFLHWEVVTGTFGLGVGDQPGPNDKKSELLPA GWNNDKDLVLRYE YKDGSRKLLVKAITVESSMILNVLEYGSQQVADLTNLDDYID AEHLGDFHRTYKNSEELRSRIVSGIIT PIHEQWEKANVSSPHREFPPATAREVDPLRI PPRHPHTSRQPPWCDPLGPFVVGEDLDPFGPRRGGMIV DPLRSGFPRALIDPSSGLPNRLPPGAVPPGARFDPFGPIGTSPPGPNPDHLPPPGYD DMLTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Pathways	Proteasome
Full Length	Full L.

GENE INFORMATION

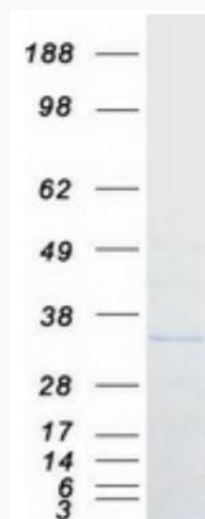
Gene Name	PSMF1 proteasome inhibitor subunit 1 [Homo sapiens (human)]
Official Symbol	PSMF1
Synonyms	PI31

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Gene ID	9491
mRNA Refseq	NM_006814.5
Protein Refseq	NP_006805.2
MIM	617858
UniProt ID	Q92530



Coomassie blue staining of purified PSMF1 protein.