

Recombinant Human PSMF1, His-tagged

Cat. No. PSMF1-31210TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human Proteasome Inhibitor subunit 1 PI3 1 with N terminal His tag; 291 amino acids with tag, Predicted MWt 31.9 kDa.
Species	Human
Source	E.coli
ProteinLength	271 amino acids
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.
Conjugation	HIS
Molecular Weight	31.900kDa inclusive of tags

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Form	Liquid
Purity	by SDS-PAGE
Storage buffer	pH: 8.00 Constituents: 0.32% Tris HCl, 20% Glycerol, 0.02% DTT, 0.002% PMSF
Storage	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MGSSHHHHHHSSGLVPRGSHMAGLEVLFAAATAITCRQD ALVCFLHWEVVTHGY CGLGVGDQPGPNDDKSELLPAGWNN NKDLYVLRYEYKDGSRKLLVKAITVESSMIL NVLEYGSQQ VADLTNLDDYIDAEHLGDFHRTYKNSEELRSRIVSGIIT PIHEQWEK ANVSSPHREFPPATAREVDPLRIPPHHPHTSR QPPWCDPLGPFVVGGEDLDPFPGP RRGGMIVDPLRSGFPRA LIDPSSGLPNRLPPGAVPPGARFDPFGPIGTSPPGPNPD H LPPPGYDDMYL
Sequence Similarities	Belongs to the proteasome inhibitor PI31 family.

GENE INFORMATION

Gene Name	PSMF1 proteasome (prosome, macropain) inhibitor subunit 1 (PI31) [Homo sapiens]
Official Symbol	PSMF1
Synonyms	PSMF1; proteasome (prosome, macropain) inhibitor subunit 1 (PI31); proteasome inhibitor PI31 subunit; PI31; proteasome inhibitor hP131 subunit;
Gene ID	9491
mRNA Refseq	NM_006814

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Protein Refseq	NP_006805
Uniprot ID	Q92530
Chromosome Location	20p13
Pathway	APC/C-mediated degradation of cell cycle proteins, organism-specific biosystem; APC/C:Cdc20 mediated degradation of Securin, organism-specific biosystem; APC/C:Cdc20 mediated degradation of mitotic proteins, organism-specific biosystem; APC/C:Cdh1 mediated degradation of Cdc20 and other APC/C:Cdh1 targeted proteins in late mitosis/early G1, organism-specific biosystem; Activation of APC/C and APC/C:Cdc20 mediated degradation of mitotic proteins, organism-specific biosystem;
Function	endopeptidase inhibitor activity; protein binding;