Recombinant Human Proteasome (prosome, macropain) Inhibitor Subunit 1 (PI31), His-tagged

Cat. No. PSMF1-1567H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human PSMF1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.
Species	Human
Source	E.coli
Description	PSMF1 is a protein that inhibits the activation of the proteasome by the 11S and 19S regulators. 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.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 1mM DTT, 0.1mM PMSF.
Molecular Weight	31.9 kDa (291aa), confirmed by MALDI-TOF.
Purity	>85% by SDS-PAGE
Concentration	0.5 mg/ml (determined by Bradford assay)
Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MAGLEVLFAS AAPAITCRQD ALVCFLHWEV VTHGYCGLGV GDQPGPNDKK SELLPAGWNN NKDLYVLRYEYKDGSRKLLV

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	KAITVESSMI LNVLEYGSQQ VADLTLNLDD YIDAEHLGDF HRTYKNSEEL RSRIVSGIIT PIHEQWEKAN VSSPHREFPPATAREVDPLR IPPHHPHTSR QPPWCDPLGP FVVGGEDLDP FGPRRGGMIV DPLRSGFPRA LIDPSSGLPN RLPPGAVPPG ARFDPFGPIGTSPPGPNPDH LPPPGYDDMY L
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
Pathways	APC/C-mediated degradation of cell cycle proteins; APC/C:Cdc20 mediated degradation of Securin; APC/C:Cdc20 mediated degradation of mitotic proteins; APC/C:Cdh1 mediated degradation of Cdc20 and other APC/C:Cdh1 targeted proteins in late mitosis/early G1; Activation of APC/C and APC/C:Cdc20 mediated degradation of mitotic proteins; Adaptive Immunity Signaling; Antigen processing: Ubiquitination& Proteasome degradation; Apoptosis; Assembly of the pre-replicative complex; Autodegradation of Cdh1 by Cdh1:APC/C; Autodegradation of the E3 ubiquitin ligase COP1; CDK-mediated phosphorylation and removal of Cdc6; CDT1 association with the CDC6:ORC:origin complex; Cell Cycle Checkpoints; Cell Cycle

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); PI31; proteasome inhibitor PI31 subunit; hPI31; OTTHUMP00000029952; OTTHUMP00000029955; proteasome inhibitor hP131 subunit
Gene ID	9491
mRNA Refseq	NM_006814

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Protein Refseq	NP_006805
UniProt ID	Q92530
Chromosome Location	20p13
Function	endopeptidase inhibitor activity; protein binding

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA