

## Recombinant Human Proteasome (prosome, macropain) Activator Subunit 3 (PA28 gamma; Ki), His-tagged

Cat. No. PSME3-6860H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human PSME3 protein, fused to His-tag at N-terminus, was expressed in <i>E. coli</i> and purified by using conventional chromatography techniques. MW: 31.7 kDa.
<b>Species</b>	Human
<b>Source</b>	<i>E. coli</i>
<b>ProteinLength</b>	1-254aa
<b>Description</b>	PSME3 belongs to the PA28 family. The 26S proteasome is a multicatalytic proteinase complex with a highly ordered structure composed of 2 complexes, a 20S core and a 19S regulator. Proteasomes are distributed throughout eukaryotic cells at a high concentration and cleave peptides in an ATP/ubiquitin-dependent process in a non-lysosomal pathway. PSME3 activates the trypsin-like catalytic subunit of the proteasome but inhibits the chymotrypsin-like and postglutamyl-preferring subunits.
<b>Form</b>	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 2mM DTT, 40% glycerol, 200mM NaCl.
<b>Molecular Mass</b>	31.7kDa (274aa), confirmed by MALDI-TOF.
<b>AA Sequence</b>	MGSSHHHHHH SSGLVPRGSH MASLLKVDQE VKLKVDSFRE RITSEAEDLV ANFFPKKLE LDSFLKEPIL NIHDLTQIHS DMNLPVPDPI LLTNSHDGLD

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GPTYKKRRLD ECEEAFQGTK VVMPNGMLK SNQQLVDIIE KVKPEIRLLI  
 EKCNTVKMWV QLLIPRIEDG NNFGVSIQEE TVAELRTVES EAASYLDQIS  
 RYYITRAKLV SKIAKYPHVE DYRRTVTEID EKEYISLRLLI ISELRNQYVT  
 LHDMILKNIE KIKRPRSSNA ETLY

**Purity** >90% by SDS - PAGE

**Applications** SDS-PAGE

**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.

**Concentration** 0.5mg/ml (determined by Bradford assay)

## GENE INFORMATION

**Gene Name** [PSME3 proteasome \(prosome, macropain\) activator subunit 3 \(PA28 gamma; Ki\) \[ Homo sapiens \]](#)

**Official Symbol** PSME3

**Synonyms** PSME3; proteasome (prosome, macropain) activator subunit 3 (PA28 gamma; Ki); proteasome activator complex subunit 3; Ki; PA28 gamma; PA28G; REG GAMMA; PA28gamma; Ki antigen; Ki nuclear autoantigen; proteasome activator 28-gamma; 11S regulator complex gamma subunit; 11S regulator complex subunit gamma; proteasome activator 28 subunit gamma; activator of multicatalytic protease subunit 3; REG-GAMMA; PA28-gamma;

**Gene ID** [10197](#)

**mRNA Refseq** [NM\\_005789](#)

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<b>Protein Refseq</b>	NP_005780
<b>MIM</b>	605129
<b>UniProt ID</b>	P61289
<b>Chromosome Location</b>	17q12-q21
<b>Pathway</b>	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; Activation of NF-kappaB in B Cells, organism-specific biosystem; Adaptive Immune System, organism-specific biosystem;
<b>Function</b>	MDM2 binding; endopeptidase activator activity; p53 binding; protein binding;

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