Recombinant Human PSME3, His-tagged

Cat. No. PSME3-30434TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human PSME3 with an N terminal His tag; 274 amino acids with a predicted MWt of 31.7kDa including the tag.
Species	Human
Source	E.coli
ProteinLength	254 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. The immunoproteasome contains an alternate regulator, referred to as the 11S regulator or PA28, that replaces the 19S regulator. Three subunits (alpha, beta and gamma) of the 11S regulator have been identified. This gene encodes the gamma subunit of the 11S regulator. Six gamma subunits combine to form a homohexameric ring. Two transcript variants encoding different isoforms have been identified.

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

Conjugation	HIS
Molecular Weight	31.700kDa inclusive of tags
Form	Liquid
Purity	>90% by SDS-PAGE
Storage buffer	pH: 8.00Constituents:0.32% Tris HCl, 0.03% DTT, 40% Glycerol, 1.17% Sodium chloride
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	MGSSHHHHHHSSGLVPRGSHMASLLKVDQEVKLKVDSFRE RITSEAEDLVANFFPK KLLELDSFLKEPILNIHDLTQIHS DMNLPVPDPILLTNSHDGLDGPTYKKRRLDECEEA FQGTK VFVMPNGMLKSNQQLVDIIEKVKPEIRLLIEKCNTVKMWV QLLIPRIEDGNN FGVSIQEETVAELRTVESEAASYLDQIS RYYITRAKLVSKIAKYPHVEDYRRTVTEIDE KEYISLRLI ISELRNQYVTLHDMILKNIEKIKRPRSSNAETLY
Sequence Similarities	Belongs to the PA28 family.

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);

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	proteasome activator complex subunit 3; Ki; PA28 gamma; PA28G; REG GAMMA;
Gene ID	10197
mRNA Refseq	NM_005789
Protein Refseq	NP_005780
MIM	605129
Uniprot ID	P61289
Chromosome Location	17q12-q21
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	MDM2 binding; endopeptidase activator activity; p53 binding; protein binding;

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