Recombinant Human PSMC3 Protein, His-tagged

Cat. No. PSMC3-420H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PSMC3(Asn2~Ala439) fused with His tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Asn2~Ala439
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 one of the ATPase subunits, a member of the triple-A family of ATPases that have chaperone-like activity. This subunit may compete with PSMC2 for binding to the HIV tat protein to regulate the interaction between the viral protein and the transcription complex. A pseudogene has been identified on chromosome 9.

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

Form	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Molecular Mass	52.7kDa
Endotoxin	<1.0EU per 1μg (determined by the LAL method)
Purity	> 98%
Applications	Positive Control; Immunogen; SDS-PAGE; WB. If bio-activity of the protein is needed, please check active protein.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Reconstitution	Reconstitute in PBS or others.

GENE INFORMATION

Gene Name	PSMC3 proteasome (prosome, macropain) 26S subunit, ATPase, 3 [Homo sapiens]
Official Symbol	PSMC3
Synonyms	PSMC3; proteasome (prosome, macropain) 26S subunit, ATPase, 3; 26S protease regulatory subunit 6A; TBP 1; TBP1; TBP-1; Tat-binding protein 1; proteasome subunit P50; proteasome 26S subunit ATPase 3; 26S proteasome AAA-ATPase subunit RPT5; human immunodeficiency virus tat transactivator binding protein-1;

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	MGC8487;
Gene ID	5702
mRNA Refseq	NM_002804
Protein Refseq	NP_002795
MIM	186852
UniProt ID	P17980

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