

Recombinant Human PSMC4, His-tagged

Cat. No. PSMC4-29835TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human Tbp7 protein with an N terminal His tag. Predicted MWt: 48 kDa;
Species	Human
Source	E.coli
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 which have a chaperone-like activity. This subunit has been shown to interact with an orphan member of the nuclear hormone receptor superfamily highly expressed in liver, and with gankyrin, a liver oncoprotein. Two transcript variants encoding different isoforms have been identified.
Conjugation	HIS

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Form	Lyophilised:Reconstitute with 84 µl aqua dest.
Storage buffer	Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	MEEIGILVEKAQDEIPALSVSRPQTGLSFLGPEPEDLEDL YSRYKKLQQELEFLEVQE EYIKDEQKNLKKEFLHAQEE VKRIQSIPLVIGQFLEAVDQNTAIVGSTTGSNYYVRIL STIDRELLKPNASVALHKHSNALVDVLPPEADSSIMMLTS DQKPDVMYADIGGMDIQ KQEVREAVELPLTHFELYKQI GIDPPRGVLMYGPPGCGKTMLAKAVAHHTTAAFIRV VG SEFVQKYLGEPRMVRDVFRLAKENAPAIIFIDEIDAIATKRFDAQTGADREVQRI LLELLNQMDGFDQNVNVKVIMA TNRADTLDPALLRPGRLDRKIEFPLPDRRQKRLIF STI TSKMNLSEEVDLEDYVARPDKISGADINSICQESGMLA VRENRYIVLAKDFEKAY KTVIKKDEQEHEFYK
Full Length	Full L.

GENE INFORMATION

Gene Name	PSMC4 proteasome (prosome, macropain) 26S subunit, ATPase, 4 [Homo sapiens]
Official Symbol	PSMC4
Synonyms	PSMC4; proteasome (prosome, macropain) 26S subunit, ATPase, 4; MIP224; 26S protease regulatory subunit 6B; MB67 interacting protein; MGC8570; MGC13687; MGC23214; protease 26S subunit 6; S6; Tat binding protein 7; TBP 7; TBP7;
Gene ID	5704
mRNA Refseq	NM_006503

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Protein Refseq	NP_006494
MIM	602707
Uniprot ID	P43686
Chromosome Location	19q13.11-q13.13
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	ATP binding; ATPase activity; hydrolase activity; nucleotide binding; protein binding;

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