

Recombinant Human PSMC4 Protein, His-tagged

Cat. No. PSMC4-417H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PSMC4(Met1~Lys418) fused with His tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Met1~Lys418
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. This gene encodes a member of the triple-A family of ATPases that is a component of the 19S regulatory subunit and plays a role in 26S proteasome assembly. The encoded protein interacts with gankyrin, a liver oncoprotein, and may also play a role in Parkinson's disease through interactions with synphilin-1. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene.
Form	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.

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Molecular Mass	51.2kDa
Endotoxin	<1.0EU per 1g (determined by the LAL method)
Purity	> 92%
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	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; TBP-7; Tat-binding protein 7; MB67-interacting protein; proteasome 26S subunit ATPase 4; 26S proteasome AAA-ATPase subunit RPT3;

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Gene ID	5704
mRNA Refseq	NM_006503
Protein Refseq	NP_006494
MIM	602707
UniProt ID	P43686

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