

Recombinant Human PSMC4 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. PSMC4-3297H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PSMC4 MS Standard C13 and N15-labeled recombinant protein (NP_006494) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	47.4 kDa

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AA Sequence	MEEIGILVEKAQDEIPALSVSRPQTGLSFLGPEPEDLEDLYSRYKKLQQELEFLEVQE EYIKDEQKNLKKEFLHAQEEVKRIQSIPLVIGQFLEAVDQNTAIVGSTTGSNYYVRILS TIDRELLKPNASVALHKHSNALVDVLPPEADSSIMMLTSDQKPDVMYADIGGMDIQK QEVREAVELPLTHFELYKQIGIDPPRGVLMYGPPGCGKTMLAKAVAHHTTAAFIRVV GSEFVQKYLGEPRMVRDVFRLAKENAPAIIFIDEIDAIATKRFDAQTGADREVQRILL ELLNQMDGFDQNVNVKVIMATNRADTLDPALLRPGRLDRKIEFPLPDRRQKRLIFSTI TSKMNLSEEVDLEDYVARPDKISGADINSICQESGMLAVRENRYIVLAKDFEKAYKTV IKKDEQEHEFYKTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	PSMC4 proteasome 26S subunit, ATPase 4 [Homo sapiens (human)]
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
SDS-PAGE	