

Recombinant Full Length Human PSMC1 Protein, Flag tagged

Cat. No. PSMC1-15HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant protein of human proteasome (prosome, macropain) 26S subunit, ATPase, 1 (PSMC1) with Flag tag was expressed in HEK293T.
Species	Human
Source	HEK293T
ProteinLength	1-440 aa
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 and a 20S core alpha subunit interact specifically with the hepatitis B virus X protein, a protein critical to viral replication. This subunit also interacts with the adenovirus E1A protein and this interaction alters the activity of the proteasome. Finally, this subunit interacts with ataxin-7, suggesting a role for the proteasome in the development of spinocerebellar

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	ataxia type 7, a progressive neurodegenerative disorder.
Form	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Molecular Mass	49 kDa
AASequence	MGQSQSGGHGPGGGKKDDKDKKKKYEPPVPTRVGKKKKKTKGPDAASKLPLVTP HTQCRLKLLKLERIKDYLLMEEEFIRNQEQMKNPLEEKQEEERSKVDDLGRTPMSVGT LEEIIDDNHAIVSTSVGSEHYVSILSFVDKDLLEPGCSVLLNHKVVHAVIGVLMDDTDPL VTMKVVEKAPQETYADIGGLDNQIQEIKESVELPLTHPEYYEEMGIKPPKGVILYGGP GTGKTLLAKAVANQTSATFLRVVGSELIQKYLGDGPKLVRELFRVAEEHAPSIVFIDEI DAIGTKRYDSNSGGEREIQRTMLELLNQLDGFSRGDVKVIMATNRIETLDPALIRPG RIDRKIEFPLPDEKTKKRIFQIHTSRMTLADDVTLDDLIMAKDDLSGADIKAICTEAGLM ALRERRMKVTNEDFKKSKENVLYKKQEGTPEGLYLTRTRPLEQKLISEEDLAANDILD YKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Notes	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage	Store at -80 centigrade. Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Concentration	> 0.05 µg/µL as determined by microplate BCA method
GENE INFORMATION	
Gene Name	PSMC1 proteasome 26S subunit, ATPase 1 [Homo sapiens (human)]
Official Symbol	PSMC1

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Synonyms	PSMC1; proteasome 26S subunit, ATPase 1; S4; p56; RPT2; P26S4; NEDGTH; 26S proteasome regulatory subunit 4; 26S protease regulatory subunit 4; 26S proteasome AAA-ATPase subunit RPT2; proteasome (prosome, macropain) 26S subunit, ATPase, 1; proteasome 26S ATPase subunit 1
Gene ID	5700
mRNA Refseq	NM_002802
Protein Refseq	NP_002793
MIM	602706
UniProt ID	P62191
SDS-PAGE and WB	