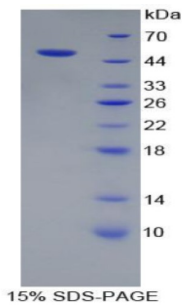


## Human 26S Proteasome Regulatory Subunit 6A (PSMC3) Protein

Catalogue No.: abx068718



SDS-PAGE analysis of Human PSMC3 Protein.

Recombinant 26S Proteasome Regulatory Subunit 6A (PSMC3) is a recombinant Human protein produced in a Prokaryotic expression system (E. coli). 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.

**Target:** 26S Proteasome Regulatory Subunit 6A (PSMC3)

**Origin:** Human

**Expression:** Recombinant

**Tested Applications:** WB, SDS-PAGE

**Host:** E. coli

**Conjugation:** Unconjugated

**Form:** Lyophilized

**Purity:** > 97%

**Reconstitution:** To keep the original salt concentration, we recommend reconstituting to the original concentration prior to lyophilization (see Concentration) in ddH<sub>2</sub>O. If a lower concentration is required, dilute in 20 mM Tris, 150 mM NaCl, pH 8.0. If a higher concentration is required, the product can be reconstituted directly in 20 mM Tris, 150 mM NaCl, pH 8.0, though please note that this will change the overall salt concentration. The stock concentration should be between 0.1-1.0 mg/ml. Do not vortex.

**Storage:** Store at 2-8 °C for up to one month. Store at -80 °C for up to one year. Avoid repeated freeze/thaw cycles.

# Datasheet

Version: 1.0.0  
Revision date: 22 Nov 2024



**UniProt Primary AC:** P17980 ([UniProt](#), [ExpASY](#))

**Gene Symbol:** PSMC3

**GeneID:** [5702](#)

**OMIM:** [186852](#)

**NCBI Accession:** NM\_002804

**HGNC:** 9549

**KEGG:** hsa:5702

**Ensembl:** ENSG00000165916

**String:** [9606.ENSP00000481029](#)

**Molecular Weight:** Calculated MW: 52.7 kDa  
Observed MW (SDS-PAGE): 53 kDa

**Sequence Fragment:** Asn2-Ala439

**Sequence:** NLLPNIESP VTRQEKMATV WDEAEQDGIG EEVLKMSTEE IQRTRLLDS EIKIMKSEVL  
RVTHELQAMK  
DKIKENSEKI KVNKTLPLYLV SNVIELLDVD PNDQEEDGAN IDLSQRKGGK CAVIKTSTRQ TYFLPVIG  
LV DAEKLPKPGDL VGVNKDSYLI LETLPTEYDS RVKAMEVDER PTEQYSDIGG LDKQIQELVE  
AIVLPM  
NHKE KFENLGIQPP KGVLMYGPPG TGKTLARAC AAQTKATFLK LAGPQLVQMF IGDGAKLVRD  
AFAL  
AKEKAP SIIFIDELDA IGTKRFDSEK AGDREVQRTM LELLNQLDGF QPNTQVKVIA ATNRVDILDLP AL  
LRSGRLDR KIEFPMPNEE ARARIMQIHS RKMNVSPDVN YEELARCTDD FNGAQCKAVC  
VEAGMIALRR  
GATELTHEDY MEGILEVQAK KKANLQYYA

**Tag:** N-terminal His tag

**Buffer:** Prior to lyophilization: 20 mM Tris, 150 mM NaCl, pH 8.0, containing 1 mM EDTA, 1 mM DTT, 0.01% Sarcosyl, 5% Trehalose and Proclin-300.

**Activity:** Not tested

**Concentration:** Prior to lyophilization: 200 µg/ml

**Note:** This product is for research use only.  
Not for human consumption, cosmetic, therapeutic or diagnostic use.