

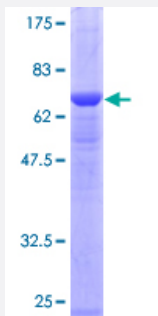
Full-Length

# PSMC6 (Human) Recombinant Protein (P01)

Catalog # H00005706-P01

Size 25 ug, 10 ug

## Applications



## Specification

### Product Description

Human PSMC6 full-length ORF ( AAH05390, 1 a.a. - 389 a.a.) recombinant protein with GST-tag at N-terminal.

### Sequence

MADPRDKALQDYRKKLLEHEEIDGRLKELREQLKELTKQYEKSENDLKALQSVGQIVGEVLKQLT  
EEKFIVKATNGPRYVVGCRRLDKSKLKPGRTRVALDMTTLTIMRYLPREVDPLVYNMSHEDPGNV  
SYSEIGGLSEQIRELREVIELPLTNPELFQRVGIIPKGCCLLYGPPGTGKTLARAVASQLDCNFLKV  
VSSSIVDKYIGESARLIREMFNYARDHQPCIIFMGEIDAIGGRRFSEGTSADREIQRTLMELLNQMDG  
FDTLHRVKMIMATNRPDTLDPALLRPGRDRKIHIDLPNEQARLDILKIHAGPITKHGEIDYEAVKLS  
DGFNGADLRNVCTEAGMFAIRADHDFVQEDFMKAVRKVADSKKLESKLDYKPV

### Host

Wheat Germ (in vitro)

### Theoretical MW (kDa)

68.31

### Preparation Method

[in vitro wheat germ expression system](#)

### Purification

Glutathione Sepharose 4 Fast Flow

### Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

### Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

### Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

## Note

Best use within three months from the date of receipt of this protein.

## Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

## Gene Info — PSMC6

Entrez GeneID [5706](#)

GeneBank Accession# [BC005390](#)

Protein Accession# [AAH05390](#)

Gene Name PSMC6

Gene Alias CADP44, MGC12520, P44, SUG2, p42

Gene Description proteasome (prosome, macropain) 26S subunit, ATPase, 6

Omim ID [602708](#)

Gene Ontology [Hyperlink](#)

**Gene Summary**

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. Pseudogenes have been identified on chromosomes 8 and 12. [provided by RefSeq]

**Other Designations**

26S protease regulatory subunit S10B|conserved ATPase domain protein 44|proteasome 26S ATPase subunit 6|proteasome subunit p42

## Pathway

- [Proteasome](#)