

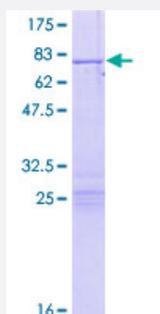
Full-Length

PSMC5 (Human) Recombinant Protein (P01)

Catalog # H00005705-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human PSMC5 full-length ORF (NP_002796.4, 1 a.a. - 406 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MALDGPEQMELEEGKAGSGLRQYYLSKIEELQLVNDKSQNLRRLLQAQRNELNAKVRLREELQL
LQEQGSYVGEVVRAMDKKKVLVKVHPEGKFVVDVDKNIDINDVTPNCRVALRNDSTLHKILPNK
VDPLVSLMMVEKVPDSTYEMIGGLDKQIKEIKEVIELPVKHPELFEALGIAQPKGVLVLYGPPGTGKT
LLARAVAHHTDCTFIRVSGSELVQKFIGEGARMVRELFVMAREHAPSIIIFMDEIDSIGSSRLEGGSG
GDSEVQRTMLELLNQLDGFEATKNIKVIMATNRDILDSALLRPGRIDRKIEFPPPNEEARLDILKIHS
RKMNLTRGINLRKIAELMPGASGAEVKGVCTEAGMYALRERRVHVTQEDFEMAVAKVMQKDSEK
NMSIKKLWK

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

72

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 — PSMC5

Entrez GeneID [5705](#)

GeneBank Accession# [NM_002805.4](#)

Protein Accession# [NP_002796.4](#)

Gene Name PSMC5

Gene Alias S8, SUG1, TBP10, TRIP1, p45, p45/SUG

Gene Description proteasome (prosome, macropain) 26S subunit, ATPase, 5

Omim ID [601681](#)

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. In addition to participation in proteasome functions, this subunit may participate in transcriptional regulation since it has been shown to interact with the thyroid hormone receptor and retinoid X receptor-alpha. [provided by RefSeq]

Other Designations

MSUG1 protein|Tat-binding protein homolog 10|proteasome 26S ATPase subunit 5|proteasome subunit p45|thyroid receptor interactor 1

Pathway

- [Proteasome](#)