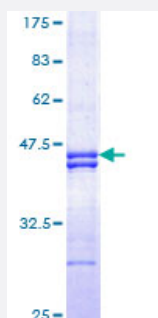


PSMC3 (Human) Recombinant Protein (Q01)

Catalog # H00005702-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human PSMC3 partial ORF (AAH08713, 53 a.a. - 152 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MNLLPNIESPVTRQEKMATVWDEAEQDGIGEEVLK MSTEEIIQRTRLLDSEIKIMKSEVLRVTHELQ AMKDKIKENSEKIKV NKTLPLYLSNVIELLDVD
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	36.63
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 — PSMC3

Entrez GeneID [5702](#)

GeneBank Accession# [BC008713](#)

Protein Accession# [AAH08713](#)

Gene Name PSMC3

Gene Alias MGC8487, TBP1

Gene Description proteasome (prosome, macropain) 26S subunit, ATPase, 3

Omim ID [186852](#)

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 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. [provided by RefSeq]

Other Designations Tat-binding protein 1|human immunodeficiency virus tat transactivator binding protein-1|proteasome 26S ATPase subunit 3|proteasome subunit P50

Pathway

- [Proteasome](#)