

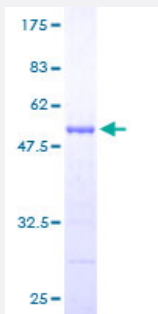
Full-Length

PSMB9 (Human) Recombinant Protein (P01)

Catalog # H00005698-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human PSMB9 full-length ORF (AAH65513, 1 a.a. - 219 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MLRAGAPTGDLP RAGEVHTGTTIMAVEFDGGVVMGSDSRVSAGEAVVNRVFDKLSPLHERIYCA LSGSAADAQAVADMAAYQLELHGIELEPPVLAAANVVRNISKYREDLSAHLMVAGWDQREG GQVYGTLLGMLTRQPF AIGGSGSTFIYGVDAA YKPGMSPEECRRFTTDAIALAMSRDGSSGGVIY LVTITAAGVDHRVILGNELPKFYDE
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	49.83
Interspecies Antigen Sequence	Mouse (88); Rat (90)
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 — PSMB9

Entrez GeneID [5698](#)

GeneBank Accession# [BC065513](#)

Protein Accession# [AAH65513](#)

Gene Name PSMB9

Gene Alias LMP2, MGC70470, PSMB6i, RING12, beta1i

Gene Description proteasome (prosome, macropain) subunit, beta type, 9 (large multifunctional peptidase 2)

Omim ID [177045](#)

Gene Ontology [Hyperlink](#)

Gene Summary

The proteasome is a multicatalytic proteinase complex with a highly ordered ring-shaped 20S core structure. The core structure 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. 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 a member of the proteasome B-type family, also known as the T1B family, that is a 20S core beta subunit. This gene is located in the class II region of the MHC (major histocompatibility complex). Expression of this gene is induced by gamma interferon and this gene product replaces catalytic subunit 1 (proteasome beta 6 subunit) in the immunoproteasome. Proteolytic processing is required to generate a mature subunit. Two alternative transcripts encoding different isoforms have been identified; both isoforms are processed to yield the same mature subunit. [provided by RefSeq]

Other Designations

OTTHUMP00000029423|OTTHUMP00000062982|low molecular mass protein 2|macropain chain 7|multicatalytic endopeptidase complex chain 7|proteasome beta 9 subunit|proteasome catalytic subunit 1i|proteasome chain 7|proteasome subunit beta 6i|proteasome-related gene

Pathway

- [Proteasome](#)

Disease

- [Acute Disease](#)
- [Alveolitis](#)
- [Alzheimer disease](#)
- [Arthritis](#)
- [Brucellosis](#)
- [Cadaver](#)
- [Cardiovascular Diseases](#)
- [Colorectal Neoplasms](#)
- [Coronary Disease](#)
- [Dermatitis](#)
- [Diabetes Mellitus](#)
- [Diseases in Twins](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Hepatitis B](#)
- [Hepatitis C](#)
- [Hypertension](#)
- [Lupus Erythematosus](#)

- [Malaria](#)
- [Multiple Sclerosis](#)
- [Papillomavirus Infections](#)
- [Psoriasis](#)
- [Spondylarthropathies](#)
- [Spondylitis](#)
- [Uterine Cervical Neoplasms](#)