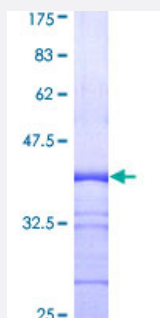


PSMB7 (Human) Recombinant Protein (Q01)

Catalog # H00005695-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human PSMB7 partial ORF (AAH00509, 188 a.a. - 277 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	DMEEEEAKNLVSEIAAAGIFNDLGSGSNIDLCVISKNKLDFLRPYTPVNKKGTRLGRYRCEKGTTA VLTEKITPLEIEVLEETVQTMDS
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	35.64
Interspecies Antigen Sequence	Mouse (94); Rat (92)
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 — PSMB7

Entrez GeneID [5695](#)

GeneBank Accession# [BC000509](#)

Protein Accession# [AAH00509](#)

Gene Name PSMB7

Gene Alias Z

Gene Description proteasome (prosome, macropain) subunit, beta type, 7

Omim ID [604030](#)

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 in the proteasome. Expression of this catalytic subunit is downregulated by gamma interferon and proteolytic processing is required to generate a mature subunit. This subunit is not present in the immunoproteasome and is replaced by catalytic subunit 2i (proteasome beta 10 subunit). [provided by RefSeq]

Other Designations

OTTHUMP00000022798|macropain chain Z|multicatalytic endopeptidase complex chain Z|proteasome beta 7 subunit|proteasome catalytic subunit 2|proteasome subunit Z|proteasome subunit alpha|proteasome subunit beta 7

Pathway

- [Proteasome](#)

Disease

- [Kidney Failure](#)
- [Tobacco Use Disorder](#)