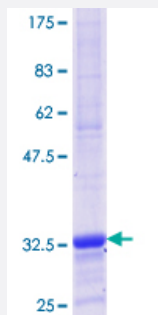


# PSMB5 (Human) Recombinant Protein (Q01)

Catalog # H00005693-Q01

Size 25 ug, 10 ug

## Applications



## Specification

<b>Product Description</b>	Human PSMB5 partial ORF ( NP_002788.1, 200 a.a. - 262 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Sequence</b>	RGYSYDLEVEQAYDLARRAIYQATYRDAYS GGAVNLYHVREDGWIRVSSDNVADLHEKYS GST
<b>Host</b>	Wheat Germ (in vitro)
<b>Theoretical MW (kDa)</b>	32.67
<b>Preparation Method</b>	<a href="#">in vitro wheat germ expression system</a>
<b>Purification</b>	Glutathione Sepharose 4 Fast Flow
<b>Quality Control Testing</b>	12.5% SDS-PAGE Stained with Coomassie Blue.
<b>Storage Buffer</b>	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
<b>Storage Instruction</b>	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
<b>Note</b>	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 — PSMB5

Entrez GeneID [5693](#)

GeneBank Accession# [NM\\_002797](#)

Protein Accession# [NP\\_002788.1](#)

Gene Name PSMB5

Gene Alias LMPX, MB1, MGC104214, X

Gene Description proteasome (prosome, macropain) subunit, beta type, 5

Omim ID [600306](#)

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. This catalytic subunit is not present in the immunoproteasome and is replaced by catalytic subunit 3i (proteasome beta 8 subunit). Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq]

**Other Designations**

PSX large multifunctional protease X|macropain epsilon chain|multicatalytic endopeptidase complex epsilon chain|proteasome beta 5 subunit|proteasome catalytic subunit 3|proteasome chain 6|proteasome epsilon chain|proteasome subunit MB1|proteasome subunit

## Pathway

- [Proteasome](#)