



# Recombinant Human Proteasome subunit beta type-7 (PSMB7)

<b>Product Code</b>	CSB-MP859509HU
<b>Abbreviation</b>	PSMB7
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	Q99436
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	≥85% (SDS-PAGE)
<b>Sequence</b>	TTIAGVV YKDGIVLGAD TRATEGMVVA DKNCSKIHFI SPNIYCCGAG TAADTDMTTQ LISSNLELHS LSTGRLPRVV TANRMLKQML FRYQGYIGAA LVLGGVDVTG PHLYSIYPHG STDKLPYVTM GSGSLAAMAV FEDKFRPDME EEEAKNLVSE AIAAGIFNDL GSGSNIDLCV ISKNKLDFLR PYTVPNKKGT RLGRYRCEKG TTAVLTEKIT PLEIEVLEET VQTMDTS
<b>Source</b>	Mammalian cell
<b>Target Names</b>	PSMB7
<b>Protein Names</b>	Recommended name: Proteasome subunit beta type-7 EC= 3.4.25.1 Alternative name(s): Macropain chain Z Multicatalytic endopeptidase complex chain Z Proteasome subunit Z
<b>Expression Region</b>	44-277
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full Length of Mature Protein
<b>Target Details</b>	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).

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**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

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**Shelf Life**

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