



Recombinant Human Proteasome subunit beta type-7 (PSMB7)

Product Code	CSB-EP859509HU-B
Abbreviation	PSMB7
Storage	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.
Uniprot No.	Q99436
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	>85% (SDS-PAGE)
Sequence	TTIAGVV YKDGIVLGAD TRATEGMVVA DKNCSKIHFI SPNIYCCGAG TAADTDMTTQ LISSNLELHS LSTGRLPRVV TANRMLKQML FRYQGYIGAA LVLGGVDVTG PHLYSIYPHG STDKLPYVTM GSGSLAAMAV FEDKFRPDME EEEAKNLVSE AIAAGIFNDL GSGSNIDL CV ISKNKLDFLR PYTVPNKKGT RLGRYRCEKG TTAVLTEKIT PLEIEVLEET VQTMDS
Source	E.coli
Target Names	PSMB7
Protein Names	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
Expression Region	44-277
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full Length of Mature Protein
Target Details	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).

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.

Shelf Life

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