



# Recombinant Dog Proteasome subunit beta type-8 (PSMB8)

<b>Product Code</b>	CSB-EP730148DO-B
<b>Abbreviation</b>	PSMB8
<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>	Q5W416
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Canis lupus familiaris (Dog) (Canis familiaris)
<b>Purity</b>	≥85% (SDS-PAGE)
<b>Sequence</b>	TTTLAFKF QHGVIVAVDS RATAGNYISS SRVNVKIEIN PSLLGTMMSGC AADCQYWERL LAKECRLYYL RNGERISVSA ASKLLSNMVY QYRGMDLSMG SMICGWDKKG PGLYYVDQNG TRLSGNMFST GSGSTYAYGV MDSGYQPSLS PEEAYELGRR AITYATHRDS YSGGIINMYH MKEDGWVKVE STDVNELLHQ YQEANQ
<b>Source</b>	E.coli
<b>Target Names</b>	PSMB8
<b>Protein Names</b>	Recommended name: Proteasome subunit beta type-8 EC= 3.4.25.1 Alternative name(s): Proteasome subunit beta-5i
<b>Expression Region</b>	73-276
<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. 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 3 (proteasome beta 5 subunit) in the immunoproteasome. Proteolytic processing is required to generate a mature subunit. Two alternative



transcripts encoding two isoforms have been identified; both isoforms are processed to yield the same mature 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**

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.