



# Recombinant Human Proteasome subunit alpha type-6 (PSMA6)

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| <b>Product Code</b>      | CSB-EP018871HU-B   |
| <b>Storage</b>           | Store at -20°C, for extended storage, conserve at -20°C or -80°C.  |
| <b>Uniprot No.</b>       | P60900   |
| <b>Product Type</b>      | Recombinant Protein  |
| <b>Immunogen Species</b> | Homo sapiens (Human)   |
| <b>Purity</b>            | >85% (SDS-PAGE)  |
| <b>Sequence</b>          | MSRGSSAGFD RHITIFSPEG RLYQVEYAFK AINQGGLTSV AVR GKDCAVI<br>VTQKKVPDKL LDSSTVTHLF KITENIGCVM TGMTADSR SQ VQRARYEAAN<br>WKYKYGYEIP VDMLCKRIAD ISQVYTQNAE MRPLGCCMIL IGIDEEQGPQ<br>VYKCDPAGYY CGFKATAAGV KQTESTSFLE KKVKKKFDWT FEQTVETAIT<br>CLSTVLSIDF KPSEIEVGVV TVENPKFRIL TEAEIDAHLV ALAERD   |
| <b>Source</b>            | E.coli   |
| <b>Target Names</b>      | PSMA6  |
| <b>Protein Names</b>     | Recommended name: Proteasome subunit alpha type-6 EC= 3.4.25.1<br>Alternative name(s): 27 kDa prosomal protein Short name= PROS-27 Short<br>name= p27K Macropain iota chain Multicatalytic endopeptidase complex iota<br>chain   |
| <b>Expression Region</b> | 1-246  |
| <b>Notes</b>             | Repeated freezing and thawing is not recommended. Store working aliquots at<br>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 protein  |
| <b>Target Details</b>    | The proteasome is a multicatalytic proteinase complex with a highly ordered<br>ring-shaped 20S core structure. The core structure is composed of 4 rings of 28<br>non-identical subunits; 2 rings are composed of 7 alpha subunits and 2 rings are<br>composed of 7 beta subunits. Proteasomes are distributed throughout<br>eukaryotic cells at a high concentration and cleave peptides in an ATP/ubiquitin-<br>dependent process in a non-lysosomal pathway. An essential function of a<br>modified proteasome, the immunoproteasome, is the processing of class I MHC<br>peptides. This gene encodes a member of the peptidase T1A family, that is a<br>20S core alpha subunit. A pseudogene has been identified on the Y<br>chromosome. |
| <b>Reconstitution</b>    | We recommend that this vial be briefly centrifuged prior to opening to bring the<br>contents to the bottom. Please reconstitute protein in deionized sterile water to a<br>concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final<br>concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final<br>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.