

## Product datasheet for **AR50251PU-S**

### PSMB7 (44-277, His-tag) Human Protein

#### Product data:

|                                       |  |
|---------------------------------------|--|
| Product Type:                         | Recombinant Proteins   |
| Description:                          | PSMB7 (44-277, His-tag) human recombinant protein, 10 µg   |
| Species:                              | Human  |
| Expression Host:                      | E. coli  |
| Expression cDNA Clone or AA Sequence: | MGSSHHHHHH SSGLVPRGSH MTTIAGVYK DGIVLGADTR ATEGMVVADK NCSKIHFI SP<br>NIYCCGAGTA ADTDMTTQLI SSNLELHSL S TGR LPRVTA NRMLKQMLFR YQGYIGAALV<br>LGGVDVTGPH LYSIYPHGST DKLPYVTMGS GSLAAMAVFE DKFRPDMEEE EAKNLVSEAI<br>AAGIFNDLGS GSNIDLCVIS KNKLDFLRPY TVPNKKGTRL GRYRCEKGT AVLTEKITPL EIEVLEETVQ<br>TMDTS |
| Tag:                                  | His-tag  |
| Predicted MW:                         | 27.6 kDa   |
| Concentration:                        | lot specific   |
| Purity:                               | >80% by SDS - PAGE   |
| Buffer:                               | Presentation State: Purified<br>State: Liquid purified protein<br>Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 1 mM DTT  |
| Preparation:                          | Liquid purified protein  |
| Protein Description:                  | Recombinant human PSMB7 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.  |
| Storage:                              | Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.<br>Avoid repeated freezing and thawing.   |
| Stability:                            | Shelf life: one year from despatch.  |
| RefSeq:                               | <a href="#">NP_002790</a>  |
| Locus ID:                             | 5695   |
| UniProt ID:                           | <a href="#">Q99436</a>   |
| Cytogenetics:                         | 9q33.3   |
| Synonyms:                             | Proteasome subunit beta type-7, Proteasome 20S beta 7, Macropain chain Z, Proteasome subunit Z   |


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**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. The encoded protein is a member of the proteasome B-type family, also known as the T1B family, and 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. A pseudogene of this gene is located on the long arm of chromosome 14. [provided by RefSeq, Jul 2012]

**Protein Families:**

Druggable Genome, Protease

**Protein Pathways:**

Proteasome