

## Product datasheet for **AR39154PU-N**

### PSMB10 (40-273, His-tag) Human Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	PSMB10 (40-273, His-tag) human recombinant protein, 50 µg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MGSSHHHHHH SSGLVPRGSH MTTIAGLVFQ DGVILGADTR ATNDSVWADK SCEKIHFIAP KIYCCGAGVA ADAEMTTRMV ASKMELHALS TGREPRVATV TRILRQTLFR YQGHV GASLI VGGVDLTGPQ LYGVHPHGSY SRLPFTALGS GQDAALAVLE DRFQPNMTLE AAQGLLVEAV TAGILGDLGS GGNVDACVIT KTGAKLLRTL SSPTEPVKRS GRYHFVPGTT AVLTQTVKPL TLELVEETVQ AMEVE
Tag:	His-tag
Predicted MW:	26.9 kDa
Concentration:	lot specific
Purity:	>90%
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 40% glycerol, 0.1M NaCl
Preparation:	Liquid purified protein
Protein Description:	Recombinant human PSMB10 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 up to two weeks or (in aliquots) at -20°C or -70°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	<a href="#">NP_002792</a>
Locus ID:	5699
UniProt ID:	<a href="#">P40306</a>
Cytogenetics:	16q22.1
Synonyms:	beta2i; LMP10; MECL1; PRAAS5



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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. 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. Proteolytic processing is required to generate a mature subunit. Expression of this gene is induced by gamma interferon, and this gene product replaces catalytic subunit 2 (proteasome beta 7 subunit) in the immunoproteasome. [provided by RefSeq, Jul 2008]

**Protein Families:**

Druggable Genome, Protease

**Protein Pathways:**

Proteasome

**Product images:**