

## Product datasheet for **AR50113PU-S**

### PSME2 / REG-beta (1-239, His-tag) Human Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	PSME2 / REG-beta (1-239, His-tag) human recombinant protein, 50 µg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MGSSHHHHHH SSGLVPRGSH MAKPCGVRLS GEARKQVEVF RQNLFQEAE FLYRFLPQKI IYLNQLLQED SLNVADLTSL RAPLDIIPD PPPKDDMET DKQEKKEVPK CGFLPGNEKV LSLALVKPE VWTLEKCIL VITWIQHLIP KIEDGNDFGV AIQEKVLERV NAVKTKVEAF QTTISKYFSE RGDAAVAKASK ETHVMDYRAL VHERDEAAYG ELRAMVLDLR AFYAELYHII SSNLEKIVNP KGEEKPSMY
Tag:	His-tag
Predicted MW:	29.5 kDa
Concentration:	lot specific
Purity:	>95% by SDS - PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 0.1M NaCl, 1 mM DTT, 0.1 mM PMSF
Preparation:	Liquid purified protein
Protein Description:	Recombinant human PSME2 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. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	<a href="#">NP_002809</a>
Locus ID:	5721
UniProt ID:	<a href="#">Q9UL46</a> , <a href="#">Q86SZ7</a>
Cytogenetics:	14q12
Synonyms:	PA28B; PA28beta; REGbeta



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**Summary:**

The 26S proteasome is a multicatalytic proteinase complex with a highly ordered structure composed of 2 complexes, a 20S core and a 19S regulator. The 20S core 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. The 19S regulator is composed of a base, which contains 6 ATPase subunits and 2 non-ATPase subunits, and a lid, which contains up to 10 non-ATPase 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. The immunoproteasome contains an alternate regulator, referred to as the 11S regulator or PA28, that replaces the 19S regulator. Three subunits (alpha, beta and gamma) of the 11S regulator have been identified. This gene encodes the beta subunit of the 11S regulator, one of the two 11S subunits that is induced by gamma-interferon. Three beta and three alpha subunits combine to form a heterohexameric ring. Six pseudogenes have been identified on chromosomes 4, 5, 8, 10 and 13. [provided by RefSeq, Jul 2008]

**Protein Pathways:**

Antigen processing and presentation, Proteasome

**Product images:**