

## Product datasheet for **AR50056PU-N**

### PSMA2 (1-234, His-tag) Human Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	PSMA2 (1-234, His-tag) human recombinant protein, 0.5 mg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MGSSHHHHHH SSGLVPRGSH MAERGYSFSL TTFSPSGKLV QIEYALAAVA GGAPSVGIKA ANGVVLATEK KQKSILYDER SVHKVEPITK HIGLVYSGMG PDYRVLVHRA RKLAQQYYLV YQEPIPTAQL VQRVASVMQE YTQSGGVRPF GVSLICGWN EGRPYLFQSD PSGAYFAWKA TAMGKNYVNG KTFLEKRYNE DLELEDAIHT AILTLKESFE GQMTEDNIEV GICNEAGFRR LTPTEVKDYL AAIA
Tag:	His-tag
Predicted MW:	28.0 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 30% glycerol, 0.1M NaCl, 1 mM DTT, 0.1 mM PMSF
Preparation:	Liquid purified protein
Protein Description:	Recombinant human PSMA2 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_002778</a>
Locus ID:	5683
UniProt ID:	<a href="#">P25787</a> , <a href="#">A0A024RA52</a>
Cytogenetics:	7p14.1
Synonyms:	HC3; MU; PMSA2; PSC2



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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 peptidase T1A family, that is a 20S core alpha subunit. [provided by RefSeq, Jul 2008]

**Protein Families:**

Druggable Genome, Protease

**Protein Pathways:**

Proteasome

**Product images:**