

Product datasheet for **AR50127PU-N**

PSME3 (1-254, His-tag) Human Protein

Product data:

Product Type:	Recombinant Proteins
Description:	PSME3 (1-254, His-tag) human recombinant protein, 0.25 mg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MGSSHHHHHH SSGLVPRGSH MASLLKVDQE VKLKVDSFRE RITSEAEDLV ANFFPKKLE LDSFLKEPIL NIHDLTQIHS DMNLPVPDPI LLTNSHDGLD GPTYKKRRLD ECEAFQGTK VVMPNGMLK SNQQLVDIIE KVKPEIRLLI EKCNTVKMWV QLLIPRIEDG NNFGVSIQEE TVAELRTVES EAASYLDQIS RYYITRAKLV SKIAKYPHVE DYRRTVTEID EKEYISLRLLI ISELRNQYVT LHDMLKNIE KIKRPRSSNA ETLY
Tag:	His-tag
Predicted MW:	31.7 kDa
Concentration:	lot specific
Purity:	>90% by SDS - PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 2 mM DTT, 40% glycerol, 200 mM NaCl
Preparation:	Liquid purified protein
Protein Description:	Recombinant human PSME3 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
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:	NP_001253974
Locus ID:	10197
UniProt ID:	A0A024R203 , Q6MZZ1
Cytogenetics:	17q21.31
Synonyms:	HEL-S-283; Ki; PA28-gamma; PA28G; PA28gamma; REG-GAMMA



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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 gamma subunit of the 11S regulator. Six gamma subunits combine to form a homohexameric ring. Alternate splicing results in multiple transcript variants. [provided by RefSeq, May 2012]

Protein Families:

Stem cell - Pluripotency

Protein Pathways:

Antigen processing and presentation, Proteasome

Product images: