

## Product datasheet for **AR09547PU-L**

### SAE1 / AOS1 (1-346, T7-tag) Human Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	SAE1 / AOS1 (1-346, T7-tag) human recombinant protein, 0.25 mg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	<u>MHHHHHMAS MTGGQOMGRD LYDDDDKDRW GSMVEKEEAG</u> GGISEEEAAQ YDRQIRLWGL EAQKRLRASR VLLVGLKGLG AEIAKNLILA GVKGLTMLDH EQVTPEDPGA QFLIRTGSVG RNRAEASLER AQNLNPMVDV KVDTEIEKK PESFFTQFDA VCLTCCSRDV IVKVDQICHK NSIKFFTGDV FGYHGYTFAN LGEHEFVEEK TKVAKVSQGV EDGPDTKRAK LDSSETTMVK KKVVFPCVKE ALEVDWSSEK AKAALKRTTS DYFLLQVLLK FRTDKGRDPS SDTYEEDSEL LLQIRNDVLD SLGISPDLLP EDFVRYCFSE MAPVCAVVG ILAQEIVKAL SQRDPPHNNF FFDGMKGNG IVECLGPK
Tag:	T7-tag
Predicted MW:	42.2 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 1 mM DTT, 10% glycerol
Preparation:	Liquid purified protein
Protein Description:	Recombinant human SAE1 protein, fused to His-T7-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
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:	<u>NP_001139185</u>
Locus ID:	10055
UniProt ID:	<u>Q9UBE0</u>
Cytogenetics:	19q13.32



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**Synonyms:** AOS1; HSPC140; SUA1; UBLE1A

**Summary:** Posttranslational modification of proteins by the addition of the small protein SUMO (see SUMO1; MIM 601912), or sumoylation, regulates protein structure and intracellular localization. SAE1 and UBA2 (MIM 613295) form a heterodimer that functions as a SUMO-activating enzyme for the sumoylation of proteins (Okuma et al., 1999 [PubMed 9920803]). [supplied by OMIM, Mar 2010]

**Protein Pathways:** Ubiquitin mediated proteolysis

**Product images:**



15% SDS-PAGE (3ug)