

SAE1 recombinant protein

SAE1, 1-346aa, Human, His-T7 tag, E Coli

CATALOG # AAA48647	HOST E Coli	APPLICATIONS SDS-Page
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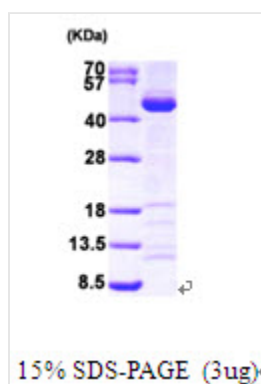
PRODUCT SYNONYMS

SAE1; 1-346aa; Human; His-T7 tag; E Coli; SuMO1 activating enzyme subunit 1; AOS1; HSPC140; SuA1; uBLE1A; ubiquitin-like 1-activating enzyme E1A; AOS 1; HSPC 140; SuA 1; uBLE 1A; uBL E1A; SAE 1; ubiquitin like protein SuMO 1 activating enzyme; SAE1 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	> 90% by SDS-PAGE
Form/Format	Liquid. In 20 mM Tris-HCl Buffer (pH 8.0) containing 1mM DTT, 10% glycerol
Concentration	1 mg/ml (determined by Bradford assay) (varies by lot)
Sequence	MHHHHHMAS MTGGQQMGRD LYDDDDKDRW GSMVEKEEAG GGISEEEAAQ YDRQIRLWGL EAQKRLRASR VLLVGLKGLG AEIAKNLILA GVKGLTMLDH EQVTPEDPGA QFLIRTGSVG RNRAEASLER AQNLNPMVDV KVDTEIEKK PESFFTQFDA VCLTCCSRDV IVKVDQICHK NSIKFFTGDV FGYHGYTFAN LGEHEFVEEK TKVAKVSQGV EDGPDTKRAK LDSSETTMVK KKVVFPCPVE ALEVDWSSEK AKAALKRTTS DYFLLQVLLK FRTDKGRDPS SDTYEEDSEL LLQIRNDVLD SLGISPDLLP EDFVRYCFSE MAPVCAVVGG ILAQEIVKAL SQRDPPHNNF FFFDGMKGNG IVECLGPK
Sequence Length	1-346
Applicable Applications for SAE1 recombinant protein	SDS-PAGE
Tag Information	His-T7-tag
Preparation and Storage	Can be stored at 2-8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.

IMAGES



SDS-PAGE

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

ADDITIONAL INFORMATION

Related Product Information for SAE1 recombinant protein	SAE1, also known as AOS1, belongs to the ubiquitin-activating E1 family of proteins and plays an important role in the first step of the uBL1 conjugation pathway. Proteins conjugated to ub are marked for progressive degradation by the 26S Proteasome. SAE1, which is a dimeric enzyme, functions as a uBLI E1 ligase mediating the ATP-dependent activation of uBL1. This protein can bind with uBLE1A and uBLE1B to form a heterodimer which can bind uBL1. Recombinant human SAE1 protein, fused to His-T7-tag at N-terminus, was expressed in E Coli and purified by using conventional chromatography techniques.
Product Categories/Family for SAE1 recombinant protein	Ubiquitination
References	Boggio R., et al. (2007) J Biol Chem. 282 (21):15376-82.; Jones MC., et al. (2006) Proc Natl Acad Sci u S A. 103 (44):16272-7.;

NCBI AND UNIPROT INFORMATION

NCBI GI #	4885585
NCBI GeneID	10055
NCBI Accession #	NP_005491
NCBI GenBank Nucleotide #	NM_005500.2
UniProt Accession #	Q9UBE0; O95717; Q9P020; B2RDP5; B3KMQ2; F5GXX7; G3XAK6
Molecular Weight	42.2 kDa (378aa) confirmed by MALDI-TOF
NCBI Official Full Name	SUMO-activating enzyme subunit 1 isoform a
NCBI Official Synonym Full Names	SUMO1 activating enzyme subunit 1
NCBI Official Symbol	SAE1
NCBI Official Synonym Symbols	AOS1; SUA1; UBLE1A; HSPC140
NCBI Protein Information	SUMO-activating enzyme subunit 1
UniProt Protein Name	SUMO-activating enzyme subunit 1
UniProt Gene Name	SAE1
UniProt Synonym Gene Names	AOS1; SUA1; UBLE1A

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.