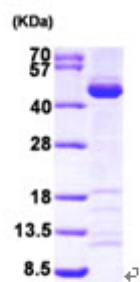


AR09547PU-N

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

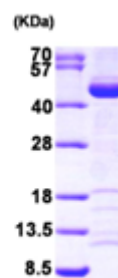
Alternate names:	SUA1, SUMO-activating enzyme subunit 1, UBLE1A, Ubiquitin-like 1-activating enzyme E1A
Quantity:	50 µg
Concentration:	1.0 mg/ml (determined by Bradford assay)
Background:	SAE1, also known as AOS1, belongs to the ubiquitin-activating E1 family of proteins and plays an important role in 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 UBL1 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.
Uniprot ID:	Q9UBE0
NCBI:	NP_005491
GeneID:	10055
Species:	Human
Source:	E. coli
Format:	State: Liquid purified protein Purity: >90% by SDS - PAGE Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol
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. AA Sequence: MHHHHHMAS MTGGQQMGRD LYDDDDKDRW GSMVEKEEAG GGISEEEAAQ YDRQIRLWGL EAQKRLRASR VLLVGLKGLG AEIAKNLILA GVKGLTMLDH EQVTPEDPGA QFLIRTGSVG RNRAEASLER AQNLNPMVDV KVDTEDEIEK PESFFTQFDA VCLTCCSRDV IVKVDQICHK NSIKFFTGDV FGYHGYTFAN LGEHEFVEEK TKVAKVSQGV EDGPDTKRAK LDSSETTMVK KKVVFPCVKE ALEVDWSSEK AKAALKRTTS DYFLLQVLLK FRTDKGRDPS SDTYEEDSEL LLQIRNDVLD SLGISPDLLP EDFVRYCFSE MAPVCAVVG ILAQEIVKAL SQRDPHNNF FFFDGMKGNG IVECLGPK Molecular weight: 42.2 kDa (378aa) confirmed by MALDI-TOF
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. Shelf life: one year from despatch.
General Readings:	Boggio R., et al. (2007) J Biol Chem. 282(21):15376-82.

Pictures:



15% SDS-PAGE (3ug)

Recombinant human SAE1, 1-346 aa, His-T7-tagged



15% SDS-PAGE (3ug)