

Product information



SAE1, 1-346 aa

Human, His-T7-tagged, Recombinant, *E.coli*

Cat. No. IBATGP0610

Full Name: SUMO1 activating enzyme subunit 1

NCBI Accession No.: NP_005491

Synonyms: AOS1, HSPC140, SUA1, UBLE1A

Description: 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. Recombinant human SAE1 protein, fused to His-T7-tag at N-terminus, was expressed in *E.coli* and purified by using conventional chromatography techniques.

Form: Liquid. In 20 mM Tris-HCl buffer (pH8.0) containing 1mM DTT, 10% glycerol

Molecular Weight: 42.2 kDa (378aa) confirmed by MALDI-TOF

Purity: > 90% by SDS - PAGE

Concentration: 1 mg/ml (determined by Bradford assay)



15% SDS-PAGE (3ug)

Sequences of amino acids:

MHHHHHMAS MTGGQQMGRD LYDDDDKDRW GSMVEKEEAG GGISEEEAAQ YDRQIRLWGL EAQKRLRASR VLLVGLKGLG AEIAKNLILA
GVKGLTMLDH EQVTPEDPGA QFLIRTSVG RNRAEASLER AQNLNPMVDV KVDTEDEK PESFFTQFDA VCLTCCSRDV IVKVDQICHK
NSIKFFTGDV FGYHGYTFAN LGEHEFVEEK TKVAKVSQGV EDGPDTKRAK LDSSETTMVK KKVVFVCPVKE ALEVDWSSEK AKAALKRRTS
DYFLLQVLLK FRTDKGRDPS SDTYEEDSEL LLQIRNDVLD SLGISPDLLP EDFVRYCFSE MAPVCAVVG ILAQEIVKAL SQRDPPHNNF
FFFDGMKGNG IVECLGPK

General references:

WARNING: THIS PRODUCT IS NOT INTENDED OR APPROVED FOR HUMAN, DIAGNOSTICS OR VETERINARY USE. USE OF THIS PRODUCT FOR HUMAN OR ANIMAL TESTING IS EXTREMELY HAZARDOUS AND MAY RESULT IN DISEASE, SEVERE INJURY, OR DEATH.

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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.

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C.
Avoid repeated freezing and thawing cycles.

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