

**SAE1, 1-346aa, Human, His-T7 tag, E.coli**

**Cat.NO.: TP03846**

3th Edition

**Synonyms:**SUMO1 activating enzyme subunit 1, 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.

**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

**Sequences:**

MHHHHHHMASMTGGQQMGRDLYDDDDKDRWGSMVEKEEAGGGISEEEAAQYDRQIRLWGLEAQKRLRASRVL  
LVGLKGLGAEIAKNLILAGVKGLTMLDHEQVTPEDPGAQFLIRTGSVGRNRAEASLERAQNLNPMVDVKVDTEDIEK  
KPESFFTQFDAVCLTCCSRDVIVKVDQICHKNSIKFFTGDVFGYHGYTFANLGEHEFVEEKTKVAKVSQGVEDGPD  
TKRAKLDSSSETTMVKKKVVFCPVKEALEVDWSSEKAKAALKRTTSDYFLLQVLLKFRTDKGRDPSSDTYEEDSELLL  
QIRNDVLDLGLISPDLLPEDFVRYCFSEMAPVCAVVGILAQEIVKALSQRDPPHNFFFDGMMKGNNGIVECLGPK

**Purity:**> 95% by HPLC

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

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**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.