

Recombinant Human SUMO1 Activating Enzyme Subunit 1, His-tagged

Cat. No. SAE1-691H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human SUMO1 Activating Enzyme Subunit 1 is produced in <i>E. coli</i> with a N-terminal His-tag. MW= 112 kDa.
Species	Human
Source	E.coli
Description	Ubiquitin activating enzyme E1 is responsible for the first step in ubiquitin-protein isopeptide bond formation and is a critical component for the initiation of in vitro conjugation reactions. E1 activates ubiquitin by first adenylating with ATP the C-terminal glycine carboxyl group of ubiquitin and, thereafter, linking this residue to the sulphhydryl side chain moiety of a cysteine residue in E1 by forming a high energy thiol ester bond and liberating free AMP. There are two active sites within the E1 molecule allowing it to accommodate two ubiquitin molecules at one time, with a new ubiquitin forming an adenylate intermediate as the previous one is transferred to the thiol site. The activated ubiquitin is then transferred to the lysine of target proteins via the E2/E3 conjugation cascade.
Formulation	In 50mM TRIS-hydrochloric acid, containing 1.0mM dithiothreitol.
Storage	-80°C.

GENE INFORMATION

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

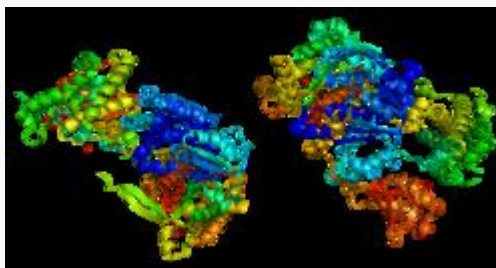
Gene Name	SAE1 SUMO1 activating enzyme subunit 1 [Homo sapiens]
Synonyms	SAE1; SUMO1 activating enzyme subunit 1; AOS1; SUA1; UBLE1A; FLJ3091; HSPC140; AOS1, FLJ3091, HSPC140; SUA1; UBLE1A; SUMO-1 activating enzyme E1 N subunit; SUMO-1 activating enzyme subunit 1; SUMO-activating enzyme subunit 1; activator of SUMO1; sentrin/SUMO-activating protein AOS1; ubiquitin-like 1-activating enzyme E1A; ubiquitin-like protein SUMO-1 activating enzyme
Gene ID	10055
mRNA Refseq	NM_001145713
Protein Refseq	NP_001139185
MIM	613294
UniProt ID	Q9UBE0
Chromosome Location	19q13.32
Pathway	Ubiquitin mediated proteolysis
Function	ATP-dependent protein binding; enzyme activator activity; ligase activity; protein C-terminus binding; protein heterodimerization activity; ubiquitin activating enzyme activity

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

PDB rendering based
on 1y8q.



Tel: 1-631-559-9269 1-516-512-3133

Email: info@creative-biomart.com Fax: 1-631-938-8127

45-1 Ramsey Road, Shirley, NY 11967, USA