

SAE1 Protein, Human (GST)

Cat. No.:	HY-P71643
Synonyms:	Activator of SUMO1; AOS1; HSPC140; Sae1; SAE1_HUMAN; Sentrin/SUMO activating protein AOS1; UBL E1A; UBLE1A
Species:	Human
Source:	E. coli
Accession:	Q9UBE0 (M1-K346)
Gene ID:	10055
Molecular Weight:	Approximately 65.4 kDa

PROPERTIES

AA Sequence	<pre> M V E K E E A G G G I S E E E A A Q Y D R Q I R L W G L E A Q K R L R A S R V L L V G L K G L G A E I A K N L I L A G V K G L T M L D H E Q V T P E D P G A Q F L I R T G S V G R N R A E A S L E R A Q N L N P M V D V K V D T E D I E K K P E S F F T Q F D A V C L T C C S R D V I V K V D Q I C H K N S I K F F T G D V F G Y H G Y T F A N L G E H E F V E E K T K V A K V S Q G V E D G P D T K R A K L D S S E T T M V K K K V V F C P V K E A L E V D W S S E K A K A A L K R T T S D Y F L L Q V L L K F R T D K G R D P S S D T Y E E D S E L L L Q I R N D V L D S L G I S P D L L P E D F V R Y C F S E M A P V C A V V G G I L A Q E I V K A L S Q R D P P H N N F F F F D G M K G N G I V E C L G P K </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against solution in Tris-based buffer, 50% glycerol.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	The SAE1 protein functions as part of a heterodimer, serving as an E1 ligase for SUMO1, SUMO2, SUMO3, and likely SUMO4. It plays a crucial role in mediating ATP-dependent activation of SUMO proteins, facilitating the subsequent formation of a thioester bond between a SUMO protein and a conserved active site cysteine residue on UBA2/SAE2. This process is integral to protein modification through sumoylation.
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Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA