# Recombinant Human SAE1, GST-tagged

**Cat. No.** SAE1-255H **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant full-length human UBLE1A (SAE1) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. |
| **Species** | Human |
| **Source** | Sf9 Cells |
| **Description** | UBLE1A (also known as SAE1) or SUMO1 activating enzyme subunit 1 is involved in regulating protein structure and intracellular localization. SAE1 and UBA2 form a heterodimer that functions as a SUMO-activating enzyme for the sumoylation of proteins. The SAE1/SAE2 dimer functions in SUMO1 activation in a manner analogous to the single E1 ubiquitin-activating enzymes. The SAE2 inactivation may be a therapeutic strategy in MYC-driven cancers. |
| **Form** | Recombinant protein stored in 50mM Tis-HCl, pH 7.5, 50mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol. |
| **Molecular Mass** | ~65 kDa |
| **Purity** | >95% by densitometry |
| **Applications** | Western Blot |
| **Storage** | Store product at –70 centigrade. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most |

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| | favorable performance, avoid repeated handling and multiple freeze/thaw cycles. |
| **Concentration** | 0.1 μg/μl |

## GENE INFORMATION

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| **Gene Name** | SAE1 SUMO1 activating enzyme subunit 1 [ Homo sapiens ] |
| **Official Symbol** | SAE1 |
| **Synonyms** | SAE1; SUMO1 activating enzyme subunit 1; SUMO-activating enzyme subunit 1; activator Of sumo 1; AOS1; FLJ3091; Sua1; activator of SUMO1; SUMO-1 activating enzyme subunit 1; sentrin/SUMO-activating protein AOS1; SUMO-1 activating enzyme E1 N subunit; ubiquitin-like 1-activating enzyme E1A; ubiquitin-like protein SUMO-1 activating enzyme; SUA1; UBLE1A; HSPC140; |
| **Gene ID** | 10055 |
| **mRNA Refseq** | NM_001145713 |
| **Protein Refseq** | NP_001139185 |
| **MIM** | 613294 |
| **UniProt ID** | Q9UBE0 |
| **Chromosome Location** | 19q13.32 |
| **Pathway** | Adaptive Immune System, organism-specific biosystem; Antigen processing: Ubiquitination & Proteasome degradation, organism-specific biosystem; Class I MHC |

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| | mediated antigen processing & presentation, organism-specific biosystem; Immune System, organism-specific biosystem; Ubiquitin mediated proteolysis, organism-specific biosystem; |
| **Function** | ATP-dependent protein binding; contributes_to SUMO activating enzyme activity; enzyme activator activity; ligase activity; nucleotide binding; protein C-terminus binding; protein binding; protein heterodimerization activity; protein heterodimerization activity; ubiquitin activating enzyme activity; |

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