# SUMO-Activating Enzyme Subunit 1 (sae1) Dictyostelium Discoideum Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | SUMO-activating enzyme subunit 1 (sae1), Recombinant Protein |
| **Full Product Name** | Recombinant Dictyostelium discoideum SUMO-activating enzyme subunit 1 (sae1) |
| **Product Gene Name** | sae1 recombinant protein |
| **Product Synonym Gene Name** | sae1 |
| **Sequence** | MTNPENTPMT TTNEGGKGLT EYEAKIYDRS IRLWGVDAQA KLRQSKVLFI GINGLMSEII KNVVLAGVDS ITLVDDHIIT TSDLSAHLFI NEDSVGKVIS TESVFAISEL NPLVTIDVYD KEIETMDDQF IKNYTMVVIS DKNLNNVSKV NSLCRKNNVS FIFSHSFGLK GLFFSDLNEF KYFTKTTTEP PKTETHISIF KSFKESMGYD WSKTNSRTPL PFFALSTLYQ FEEKHNRVPD NISDSDLSEL KSIINSSIEK FNLKNTDSNK YFEETKDLLN KMNIEISPVC AIVGGIVGAE IIKIITQNMQ VLNNFFFYDG VKGTGLVEQF |
| **Host** | E Coli or Yeast or Baculovirus or Mammalian Cell |
| **Form/Format** | Lyophilized or liquid (Format to be determined during the manufacturing process) |
| **Purity/Purification** | Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific) |
| **Preparation and Storage** | Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended. |
| **Molecular Weight** | 37,227 Da |
| **Sequence Positions** | 1-330, Full length protein |
| **Tag Information** | This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information. |
| **Sterility** | Sterile filter available upon request. |
| **Endotoxin** | Low endotoxin available upon request. |
| **3D Structure** | ModBase 3D Structure for Q54WI4 |
| **Species** | Dictyostelium discoideum (Slime mold) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for sae1 recombinant protein** | MBS1385428 is a recombinant protein targeting sae1. Also known as Recombinant Dictyostelium discoideum SUMO-activating enzyme subunit 1 (sae1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |
| **Other Notes** | Small volumes of sae1 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for sae1. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 66814780 |
| **NCBI GeneID** | 8622144 |
| **NCBI Accession #** | XP_641569.1 |
| **UniProt Primary Accession #** | Q54WI4 |

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| **GenBank Nucleotide #** | XM_636477.1 |
| **NCBI Official Full Name** | sumo-activating enzyme subunit 1 |
| **NCBI Official Symbol** | sae1 |
| **UniProt Protein Name** | SUMO-activating enzyme subunit 1 |
| **UniProt Synonym Protein Names** | Ubiquitin-like 1-activating enzyme E1A |
| **Protein Family** | SUMO-activating enzyme |
| **UniProt Gene Name** | sae1 |
| **UniProt Synonym Gene Names** | uble1a |
| **NCBI Protein Information** | sumo-activating enzyme subunit 1; ubiquitin-like 1-activating enzyme E1A |
| **UniProt Comments for sae1** | The dimeric enzyme acts as an E1 ligase for sumo. It mediates ATP-dependent activation of sumo and formation of a thioester with a conserved cysteine residue on sae2 (). |
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