# Alanine--Trna Ligase (alaS) Sulfolobus Islandicus Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | Alanine--tRNA ligase (alaS), Recombinant Protein |
| **Full Product Name** | Recombinant Sulfolobus islandicus Alanine--tRNA ligase (alaS), partial |
| **Product Gene Name** | alaS recombinant protein |
| **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** | 103,016 Da |
| **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 C4KIK1 |
| **Species** | Sulfolobus islandicus (strain M.16.4 / Kamchatka #3) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for alaS recombinant protein** | MBS1263492 is a recombinant protein targeting alaS. Also known as Recombinant Sulfolobus islandicus Alanine--tRNA ligase (alaS), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |
| **Other Notes** | Small volumes of alaS 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 alaS. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 502109094 |
| **NCBI Accession #** | WP_012711740.1 |
| **UniProt Primary Accession #** | C4KIK1 |
| **GenBank Nucleotide #** | WP_012711740.1 |
| **NCBI Official Full Name** | alanine--tRNA ligase |
| **UniProt Protein Name** | Alanine--tRNA ligase |
| **UniProt Synonym Protein Names** | Alanyl-tRNA synthetase |
| **Protein Family** | Alanine--tRNA ligase |
| **UniProt Gene Name** | alaS |
| **UniProt Synonym Gene Names** | AlaRS |

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| **UniProt Comments for alaS** | Catalyzes the attachment of alanine to tRNA(Ala) in a two-step reaction: alanine is first activated by ATP to form Ala-AMP and then transferred to the acceptor end of tRNA(Ala). Also edits incorrectly charged Ser-tRNA(Ala) and Gly-tRNA(Ala) via its editing domain. |
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