# Shikimate Dehydrogenase (aroE) Cupriavidus Pinatubonensis Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | Shikimate dehydrogenase (aroE), Recombinant Protein |
| **Full Product Name** | Recombinant Cupriavidus pinatubonensis Shikimate dehydrogenase (aroE) |
| **Product Gene Name** | aroE recombinant protein |
| **Product Synonym Gene Name** | aroE |
| **Sequence** | MTSTESSQPA DRYVVVGNPV AHSRSPFIHA AFARQTGEAV EYGRLEAPLD AFADTMRAFL AEGGYGFNVT VPFKLQAYDL ADRLTPRAEA AGAVNTMWIE DGLIHGDNTD GIGLVRDIQD NLDTLLEDKR VLLLGAGGAA MGAMLPLIEC RPSRIVVANR TASRASDMLE EFVEAADSFG VELWGGGLDA LEQLSEDDVC DVVINASSSS LHGEVPPVPA FLLGDGVLAY DMMYGAEPTV FLQHAAQCGA RTADGLGMLV EQAAEAFYIW RGVRPRTAPV LADLRAALQA ERKG |
| **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** | 31,384 Da |
| **Sequence Positions** | 1-294, 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 Q46XB7 |
| **Species** | Cupriavidus pinatubonensis (strain JMP134 / LMG 1197) (Alcaligenes eutrophus) (Ralstonia eutropha) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for aroE recombinant protein** | MBS1448913 is a recombinant protein targeting aroE. Also known as Recombinant Cupriavidus pinatubonensis Shikimate dehydrogenase (aroE). Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |
| **Other Notes** | Small volumes of aroE 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 aroE. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 499618267 |
| **NCBI Accession #** | WP_011299001.1 |
| **UniProt Primary Accession #** | Q46XB7 |
| **GenBank Nucleotide #** | WP_011299001.1 |
| **NCBI Official Full Name** | shikimate dehydrogenase |

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|---|---|
| **UniProt Protein Name** | Shikimate dehydrogenase (NADP(+)) |
| **Protein Family** | Quinate/shikimate dehydrogenase |
| **UniProt Gene Name** | aroE |
| **UniProt Synonym Gene Names** | SDH |
| **UniProt Comments for aroE** | Involved in the biosynthesis of the chorismate, which leads to the biosynthesis of aromatic amino acids. Catalyzes the reversible NADPH linked reduction of 3-dehydroshikimate (DHSA) to yield shikimate (SA). |
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