# 3-Dehydroquinate Synthase (aroB) Shewanella Denitrificans Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | 3-dehydroquinate synthase (aroB), Recombinant Protein |
| **Full Product Name** | Recombinant Shewanella denitrificans 3-dehydroquinate synthase (aroB) |
| **Product Gene Name** | aroB recombinant protein |
| **Product Synonym Gene Name** | aroB |
| **Sequence** | MQQIQVNLGD RSYPIHIGLD LLKQQQTFQS LQSKKVFIVT NDVVAPLYLT QVKAALADCA SVDVFVLPDG EKNKDLAHLE QIFSALLEKN YARDTTLLAL GGGVIGDMTG FAAACYQRGV PFVQVPTTLL AQVDSSVGGK TAVNHPLGKN MIGAFYQPQC VIIDTQCLHS LPKAEFDAGM AEVIKYGIIW DAEFFLWLEN NIAALKALDT QALTYAIAKC CAIKADIVSQ DETEQGVRAL LNLGHTFGHA IEAQMGYGNW LHGQAVAAGS VLAAKTALAL GLLDALSVQR IENLFRAFDL PIDGPQSMAF SDYMRHMRRD KKVLASKIRL ILPQAIGQAG IYSDVDEALL AQVINPS |
| **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** | 38,717 Da |
| **Sequence Positions** | 1-357, 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 Q12SL8 |
| **Species** | Shewanella denitrificans (strain OS217 / BAA-1090 / DSM 15013) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for aroB recombinant protein** | MBS1385859 is a recombinant protein targeting aroB. Also known as Recombinant Shewanella denitrificans 3-dehydroquinate synthase (aroB). Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |
| **Other Notes** | Small volumes of aroB 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 aroB. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 499813991 |
| **NCBI Accession #** | WP_011494725.1 |
| **UniProt Primary Accession #** | Q12SL8 |
| **GenBank Nucleotide #** | WP_011494725.1 |

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| **NCBI Official Full Name** | 3-dehydroquinate synthase |
| **UniProt Protein Name** | 3-dehydroquinate synthase |
| **Protein Family** | 3-dehydroquinate synthase |
| **UniProt Gene Name** | aroB |
| **UniProt Synonym Gene Names** | DHQS |
| **UniProt Comments for aroB** | Catalyzes the conversion of 3-deoxy-D-arabino-heptulosonate 7-phosphate (DAHP) to dehydroquinate (DHQ). |
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