# 3-Dehydroquinate Dehydratase (aroD) Methanococcus Maripaludis Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | 3-dehydroquinate dehydratase (aroD), Recombinant Protein |
| **Full Product Name** | Recombinant Methanococcus maripaludis 3-dehydroquinate dehydratase (aroD) |
| **Product Gene Name** | aroD recombinant protein |
| **Sequence** | MICIPVIDEN VSDAINSAKE ALKYGDIVEF RVDLLNDVTF EDIEKFSKIP SILTIRAEWE GGAWKKSDNE RIELLKYAIK NNAKFIDIEL KEERNLELVK YRNEIGSKTK IIVSYHDFEK TPEIDELIDV VEKELKIGDI AKFATFAHSK EDTLKILNLM NKYSGKIIAI GMGESGKLTR ILGLDFGSIL TFASMEGKAS APGQVDVKKL KEILELIE |
| **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** | 24,628 Da |
| **Sequence Positions** | 1-218, 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 A9A9R9 |
| **Species** | Methanococcus maripaludis (strain C6 / BAA-1332) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for aroD recombinant protein** | MBS1226166 is a recombinant protein targeting aroD. Also known as Recombinant Methanococcus maripaludis 3-dehydroquinate dehydratase (aroD). Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |
| **Other Notes** | Small volumes of aroD 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 aroD. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 501149051 |
| **NCBI GeneID** | 5737516 |
| **NCBI Accession #** | WP_012194037.1 |
| **UniProt Primary Accession #** | A9A9R9 |
| **UniProt Related Accession #** | A9A9R9 |
| **GenBank Nucleotide #** | WP_012194037.1 |
| **NCBI Official Full Name** | 3-dehydroquinase |

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| **NCBI Official Symbol** | MMARC6_RS06555 |
| **UniProt Protein Name** | 3-dehydroquinate dehydratase |
| **UniProt Synonym Protein Names** | Type I DHQase |
| **Protein Family** | 3-dehydroquinate dehydratase |
| **UniProt Gene Name** | aroD |
| **UniProt Synonym Gene Names** | 3-dehydroquinase; DHQ1 |
| **NCBI Protein Information** | 3-dehydroquinase |
| **UniProt Comments for aroD** | Involved in the third step of the chorismate pathway, which leads to the biosynthesis of aromatic amino acids. Catalyzes the cis-dehydration of 3-dehydroquinate (DHQ) and introduces the first double bond of the aromatic ring to yield 3-dehydroshikimate. |
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