3-Dehydroquinate Dehydratase (aroD) Escherichia Coli Recombinant Protein

PRODUCT OVERVIEW

Product Name	3-dehydroquinate dehydratase (aroD), Recombinant Protein
Full Product Name	Recombinant Escherichia coli 3-dehydroquinate dehydratase (aroD)
Product Gene Name	aroD recombinant protein
Sequence	MKTVTVKDLV IGTGAPKIIV SLMAKDIASV KSEALAYREA DFDILEWRVD HYADLSNVES VMAAAKILRE TMPEKPLLFT FRSAKEGGEQ AISTEAYIAL NRAAIDSGLV DMIDLELFTG DDQVKETVAY AHAHDVKVVM SNHDFHKTPE AEEIIARLRK MQSFDADIPK IALMPQSTSD VLTLLAATLE MQEQYADRPI ITMSMAKTGV ISRLAGEVFG SAATFGAVKK ASAPGQISVN DLRTVLTILH QA
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	27,467 Da
Sequence Positions	1-252, 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 B1LE43
Species	Escherichia coli (strain SMS-3-5 / SECEC)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for aroD recombinant protein	MBS1239111 is a recombinant protein targeting aroD. Also known as Recombinant Escherichia coli 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.

NCBI GI #	446782945
NCBI Accession #	WP_000860201.1
UniProt Primary Accession #	B1LE43
GenBank Nucleotide #	WP_000860201.1
NCBI Official Full Name	MULTISPECIES: 3-dehydroquinase
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
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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