3-Dehydroquinate Dehydratase (aroD) Pyrococcus Furiosus Recombinant Protein

PRODUCT OVERVIEW

Product Name	3-dehydroquinate dehydratase (aroD), Recombinant Protein
Full Product Name	Recombinant Pyrococcus furiosus 3-dehydroquinate dehydratase (aroD)
Product Gene Name	aroD recombinant protein
Product Synonym Gene Name	aroD
Sequence	MPKLAGVIIA KTIEEAVKKI KLHEADLYEL RVDYLESMEN IELLLPHSNK LIVTVRKVEE GGAKRIEEQE RLKLFEKFAK IKPAYFDVEL YSNIVEDVIN LSSKIGSKVI LSYHNFSKTP SYQTLQSILD SMIELEPDII KIVTYARDFR DNIEVIKLYE NSENLIAFCM GEKGKISRIF SALYSPFTYV SIDNSVAPGQ FTVGEMRKIL ELLGETK
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	24,830 Da
Sequence Positions	1-217, 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 Q8U0A7
Species	Pyrococcus furiosus (strain 43587 / DSM 3638 / JCM 8422 / Vc1)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for aroD recombinant protein	MBS1280963 is a recombinant protein targeting aroD. Also known as Recombinant Pyrococcus furiosus 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 #	499322346
NCBI Accession #	WP_011012838.1
UniProt Primary Accession #	Q8U0A7
GenBank Nucleotide #	WP_011012838.1
NCBI Official Full Name	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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