3-Dehydroquinate Dehydratase (aroD) Clostridium Novyi Recombinant Protein

PRODUCT OVERVIEW

Product Name	3-dehydroquinate dehydratase (aroD), Recombinant Protein
Full Product Name	Recombinant Clostridium novyi 3-dehydroquinate dehydratase (aroD)
Product Gene Name	aroD recombinant protein
Sequence	MKTVNIRGVI LGEGIPKVCT PLVGRSLKEL REEINLLKDI DCDLVEFRAD FFEHVENIQK VKEVLLEIRE ALKEKPILFT FRSAKEGGER EVESEFYCKL NKEIIKTKLI DAIDIELFNE EESILELIKI AHDEDVKVVM SNHDFHKTPP KEEMISRLVK MQELGADVTK IAVMPKGSSD VLTLLEATND MKIKYAKTPF ITMSMKGVGM ISRISGEVFG SAVTFGASKK ASAPGQLQVK ELKEILNVVH NVL
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	28,470 Da
Sequence Positions	1-253, 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 A0PYE7
Species	Clostridium novyi (strain NT)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for aroD recombinant protein	MBS1222698 is a recombinant protein targeting aroD. Also known as Recombinant Clostridium novyi 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 #	500040689
NCBI GeneID	4541218
NCBI Accession #	WP_011721407.1
UniProt Primary Accession #	A0PYE7
UniProt Related Accession #	A0PYE7
GenBank Nucleotide #	WP_011721407.1

NCBI Official Full Name	MULTISPECIES: 3-dehydroquinase
NCBI Official Symbol	NT01CX_RS02225
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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