Shikimate Dehydrogenase (aroE) Nitrosospira Multiformis Recombinant Protein

PRODUCT OVERVIEW

Product Name	Shikimate dehydrogenase (aroE), Recombinant Protein
Full Product Name	Recombinant Nitrosospira multiformis Shikimate dehydrogenase (aroE)
Product Gene Name	aroE recombinant protein
Product Synonym Gene Name	aroE
Sequence	MSDLYAVIGN PVAHSKSPLI HAGFARQSGQ DVRYEAILAP LDGFVETVAA FRQRGGKGAN VTVPFKLEAH TLSSCLTERA KAAGAVNTLV FGADDILGDN TDGAGLVRDV AVNLGYALDD RRVLLMGAGG AARGVIRPLL EHEPAALVIA NRTPQKADDL QRLFASSGNV LSAAYEDLRG QEFDLVINAT SASLQGDLPP LPKGIFAGAS LAYDMMYGKG LTSFLQFAQQ QGAARLADGI GMLVEQAAES FFLWRGIRPE TEPVIGMLRS SLGSP
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	28,997 Da
Sequence Positions	1-275, 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 Q2YBM5
Species	Nitrosospira multiformis (strain 25196 / NCIMB 11849)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for aroE recombinant protein	MBS1440186 is a recombinant protein targeting aroE. Also known as Recombinant Nitrosospira multiformis Shikimate dehydrogenase (aroE). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of aroE 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 aroE. It may not necessarily be applicable to this product.

NCBI GI #	752705046
NCBI Accession #	WP_041352350.1
UniProt Primary Accession #	Q2YBM5
GenBank Nucleotide #	WP_041352350.1
NCBI Official Full Name	shikimate dehydrogenase (NADP+)

UniProt Protein Name	Shikimate dehydrogenase (NADP(+))
Protein Family	Quinate/shikimate dehydrogenase
UniProt Gene Name	aroE
UniProt Synonym Gene Names	SDH
UniProt Comments for aroE	Involved in the biosynthesis of the chorismate, which leads to the biosynthesis of aromatic amino acids. Catalyzes the reversible NADPH linked reduction of 3-dehydroshikimate (DHSA) to yield shikimate (SA).
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