Shikimate Dehydrogenase (aroE) Recombinant Protein

PRODUCT OVERVIEW

Product Name	Shikimate dehydrogenase (aroE), Recombinant Protein
Full Product Name	Recombinant Buchnera aphidicola subsp. Acyrthosiphon pisum Shikimate dehydrogenase (aroE)
Product Gene Name	aroE recombinant protein
Product Synonym Gene Name	aroE; BU493
Product Synonym Names	Shikimate dehydrogenase; EC=1.1.1.25
Sequence	MFKCKNFNYA VFGNPINHSK SPEIHSLFSK QTGISHFYKS CNVPLNSLYA VLQDFFKKDG RGANITAPFK QEAYFFCNKL TKRAEVAQSV NTLKKIDNCN ILGDNTDGIG LLSDLIRLNF IKKNYSILII GAGGAARGVL FPLLSYGCSI CIFNRTVLNA EKLVLQFHKY GNINVFNTNS LHVKSFDLII NATSHFIQDK DNFIPFSCVS SKTCFYDMNY QTDNTFFFDW SRKTGSNFFS NGIGMLVFQA AHSFFLWHNV LPEIDYIIDL LNK
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	31,002 Da
Sequence Positions	1-273aa; 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 Q44607
Species	Buchnera aphidicola subsp. Acyrthosiphon pisum (strain APS) (Acyrthosiphon pisum symbiotic bacterium)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for aroE recombinant protein	MBS1470949 is a recombinant protein targeting aroE. Also known as Recombinant Buchnera aphidicola subsp. Acyrthosiphon pisum 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 #	15617087
NCBI GeneID	1109836
NCBI Accession #	NP_240300.1
UniProt Primary Accession #	Q44607

UniProt Related Accession #	Q44607
GenBank Nucleotide #	NC_002528.1
NCBI Official Full Name	shikimate 5-dehydrogenase
NCBI Official Symbol	aroE
UniProt Protein Name	Shikimate dehydrogenase
Protein Family	Quinate/shikimate dehydrogenase
UniProt Gene Name	aroE
UniProt Entry Name	AROE_BUCAI
NCBI Protein Information	shikimate 5-dehydrogenase
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).
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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