2-Succinyl-5-Enolpyruvyl-6-Hydroxy-3-Cyclohexene-1-Carboxylate Synthase (menD) Staphylococcus Aureus Recombinant Protein

PRODUCT OVERVIEW

Product Name	2-succinyl-5-enolpyruvyl-6-hydroxy-3-cyclohexene-1-carboxylate synthase (menD), Recombinant Protein
Full Product Name	Recombinant Staphylococcus aureus 2-succinyl-5-enolpyruvyl-6-hydroxy-3-cyclohexene-1-carboxylate synthase (menD), partial
Product Gene Name	menD recombinant protein
Product Synonym Gene Name	menD
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	63,091 Da
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 Q7A6B1
Species	Staphylococcus aureus (strain N315)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for menD recombinant protein	MBS1325965 is a recombinant protein targeting menD. Also known as Recombinant Staphylococcus aureus 2-succinyl-5-enolpyruvyl-6-hydroxy-3-cyclohexene-1-carboxylate synthase (menD), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of menD 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 menD. It may not necessarily be applicable to this product.

NCBI GI #	446448839
NCBI Accession #	WP_000526694.1
UniProt Primary Accession #	Q7A6B1
GenBank Nucleotide #	WP_000526694.1
NCBI Official Full Name	MULTISPECIES: 2-succinyl-5-enolpyruvyl-6-hydroxy-3-cyclohexene-1-carboxylate synthase
UniProt Protein Name	2-succinyl-5-enolpyruvyl-6-hydroxy-3-cyclohexene-1-carboxylate synthase
UniProt Synonym Protein Names	Menaquinone biosynthesis protein MenD

Protein Family	2-succinyl-5-enolpyruvyl-6-hydroxy-3-cyclohexene-1-carboxylate synthase
UniProt Gene Name	menD
UniProt Synonym Gene Names	SEPHCHC synthase
UniProt Comments for menD	Catalyzes the thiamine diphosphate-dependent decarboxylation of 2-oxoglutarate and the subsequent addition of the resulting succinic semialdehyde-thiamine pyrophosphate anion to isochorismate to yield 2-succinyl-5-enolpyruvyl-6-hydroxy-3-cyclohexene-1-carboxylate (SEPHCHC).
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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