Chorismate Synthase (aroC) Streptomyces Coelicolor Recombinant Protein

PRODUCT OVERVIEW

Product Name	Chorismate synthase (aroC), Recombinant Protein
Full Product Name	Recombinant Streptomyces coelicolor Chorismate synthase (aroC)
Product Gene Name	aroC recombinant protein
Product Synonym Gene Name	aroC
Sequence	MSRLRWLTAG ESHGPALVAT LEGLPAGVPI TTEMVADHLA RRRLGYGRGA RMKFERDEVT FLGGVRHGLT MGSPVAVMVG NTEWPKWEQV MAADPVDPEV LAGLARNAPL TRPRPGHADL AGMQKYGFDE ARPILERASA RETAARVALG AVARSYLKET AGVEIVSHVV ELASAKAPHG VYPTPADVER LDADPVRCLD ADASKAMVAE IDQAHKDGDT LGGVVEVLAY GVPVGLGSHV HWDRKLDARL AGALMGIQAI KGVEIGDGFE LARVPGSRAH DEIVGTPDGI RRVSGRSGGT EGGLTTGELL RVRAAMKPIA TVPRALKTVD VATGEAAQAH HQRSDVSAVP AAGIVAEAMV ALVLADAVAE KFGGDSVTET RRNVRSYLDN LDIR
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	41,577 Da
Sequence Positions	1-394, 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 Q9KXQ4
Species	Streptomyces coelicolor (strain BAA-471 / A3(2) / M145)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for aroC recombinant protein	MBS1334559 is a recombinant protein targeting aroC. Also known as Recombinant Streptomyces coelicolor Chorismate synthase (aroC). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of aroC 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 aroC. It may not necessarily be applicable to this product.

NCBI GI #	21219997
NCBI GeneID	1096922
NCBI Accession #	NP_625776.1
UniProt Primary Accession #	Q9KXQ4

UniProt Related Accession #	Q9KXQ4
GenBank Nucleotide #	NC_003888.3
NCBI Official Full Name	chorismate synthase
NCBI Official Symbol	SCO1496
NCBI Official Synonym Symbols	aroF; SC9C5.20c
UniProt Protein Name	Chorismate synthase
UniProt Synonym Protein Names	5-enolpyruvylshikimate-3-phosphate phospholyase
Protein Family	Chorismate synthase
UniProt Gene Name	aroC
UniProt Synonym Gene Names	CS
NCBI Protein Information	chorismate synthase
UniProt Comments for aroC	Catalyzes the anti-1,4-elimination of the C-3 phosphate and the C-6 proR hydrogen from 5-enolpyruvylshikimate-3-phosphate (EPSP) to yield chorismate, which is the branch point compound that serves as the starting substrate for the three terminal pathways of aromatic amino acid biosynthesis. This reaction introduces a second double bond into the aromatic ring system.
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