Chorismate Synthase (aroC) Nocardia Farcinica Recombinant Protein

PRODUCT OVERVIEW

Product Name	Chorismate synthase (aroC), Recombinant Protein
Full Product Name	Recombinant Nocardia farcinica Chorismate synthase (aroC)
Product Gene Name	aroC recombinant protein
Product Synonym Gene Name	aroC
Sequence	MEAVLRWITA GESHGPALVA ILEGMVAGVE VTSEDISAQL ARRRLGYGRG ARMKFEADKV TMVGGVRHGR TMGGPVAIEV ANSEWPKWTT VMSADPVDPA ELADLARNAP LTRPRPGHAD YSGMLKYNFD DARNVLERAS ARETAARVAA GTVARNFLRQ ALGVEVVSHV VAIGTAANTT GVVPTAADLA TVDESPVRAF DAAAEAAMIA EIEAAKKDGD TLGGVVEVIV EGLPVGLGSF TSGENRLDSR LAAALMGIQA IKGVEVGDGF ETARRRGSQA HDEMRPGPDG VLRSTNRAGG LEGGMTNGEP LRVRAAMKPI STVPRALATV DMTTGEEAVA IHQRSDVCAV PAAGVVAEAM VALVVAQAAL EKFGGDSLTE TVDNITSYVK RISTRPHVPA DSRPQ
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	42,298 Da
Sequence Positions	1-405, 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 Q5YTK8
Species	Nocardia farcinica (strain IFM 10152)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for aroC recombinant protein	MBS1411533 is a recombinant protein targeting aroC. Also known as Recombinant Nocardia farcinica 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 #	67460225
NCBI Accession #	Q5YTK8.1
UniProt Primary Accession #	Q5YTK8
NCBI Official Full Name	Chorismate synthase

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
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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