UDP-4-Amino-4-Deoxy-L-Arabinose--Oxoglutarate Aminotransferase (arnB) Yersinia Pestis Recombinant Protein

PRODUCT OVERVIEW

Product Name	UDP-4-amino-4-deoxy-L-arabinose--oxoglutarate aminotransferase (arnB), Recombinant Protein
Full Product Name	Recombinant Yersinia pestis UDP-4-amino-4-deoxy-L-arabinose--oxoglutarate aminotransferase (arnB)
Product Gene Name	arnB recombinant protein
Product Synonym Gene Name	arnB
Sequence	MQSFLPFSRP AIGSEEINAV ANVLGSGWIT TGPQNHQLET DFCQIFGCKH AIAVCSATAG MHITLLALGI GPGDEVITPS QTWVSTINMI VLLGAEPVMV DVDRDTLMVN AAAIEAAITP NTKAIIPVHY AGAPCDLDAL RQISQRHGIP LIEDAAHAVG TRYRDQWIGE QGTAIFSFHA IKNITCAEGG LVATDDDELA ARVRRLKFHG LGVDAFDRQI QGRSPQAEVV EPGYKYNLSD IHAAIAVVQL RRLPEINARR QALVASYHKA LAHLPLQPLA LPHYSHQHAW HLFMVRVDEE RCGISRDQLM ACLKDMGIGS GLHFRAVHSQ KYYRERYPHL CLPNTEWNSA RLCTLPLFPD MLDSDIERVA NALTTIIGSH RVTK
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	42,246 Da
Sequence Positions	1-384, Full length
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 Q93PE0
Species	Yersinia pestis
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for arnB recombinant protein	MBS1339453 is a recombinant protein targeting arnB. Also known as Recombinant Yersinia pestis UDP-4-amino-4-deoxy-L-arabinose--oxoglutarate aminotransferase (arnB). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of arnB 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 arnB. It may not necessarily be applicable to this product.

NCBI GI #	488140617
NCBI Accession #	WP_002211825.1
UniProt Primary Accession #	Q93PE0

UniProt Secondary Accession #	Q0WEA3; Q74TF3; Q7CIU2
GenBank Nucleotide #	WP_002211825.1
NCBI Official Full Name	MULTISPECIES: UDP-4-amino-4-deoxy-L-arabinose-oxoglutarate aminotransferase
UniProt Protein Name	UDP-4-amino-4-deoxy-L-arabinose--oxoglutarate aminotransferase
UniProt Synonym Protein Names	UDP-(beta-L-threo-pentapyranosyl-4"-ulose diphosphate) aminotransferase
Protein Family	UDP-4-amino-4-deoxy-L-arabinose--oxoglutarate aminotransferase
UniProt Gene Name	arnB
UniProt Synonym Gene Names	UDP-Ara4O aminotransferase
UniProt Comments for arnB	Catalyzes the conversion of UDP-4-keto-arabinose (UDP-Ara4O) to UDP-4-amino-4-deoxy-L-arabinose (UDP-L-Ara4N). The modified arabinose is attached to lipid A and is required for resistance to polymyxin and cationic antimicrobial peptides.
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