Bifunctional Polymyxin Resistance Protein Arna (arnA) Escherichia Coli Recombinant Protein

PRODUCT OVERVIEW

Product Name	Bifunctional polymyxin resistance protein ArnA (arnA), Recombinant Protein
Full Product Name	Recombinant Escherichia coli Bifunctional polymyxin resistance protein ArnA (arnA)
Product Gene Name	arnA recombinant protein
Product Synonym Gene Name	arnA
Sequence	MKTVVFAYHD MGCLGIEALL AAGYEISAIF THTDNPGEKA FYGSVARLAA ERGIPVYAPD NVNHPLWVER IAQLSPEVIF SFYYRHLICD EILQLAPRGA FNLHGSLLPK YRGRAPLNWV LVNGETETGV TLHRMVKRAD AGAIVAQLRV AIAPDDIAIT LHHKLCHAAR QLLEQTLPAI KHGNILEIAQ RENEATCFGR RTPDDSFLEW HKSASVLHNM VRAVADPWPG AFSYVGNQKF TVWSSRVHPH ASKAQPGSVI SVAPLLIACG DGALEIVTGQ AGDGITMQGS QLAQTLGLVQ GSRLNSQPAC AARRRTRVLI LGVNGFIGNH LTERLLREDH YEVYGLDIGS DAISRFLNHP HFHFVEGDIS IHSEWIEYHV KKCDVVLPLV AIATPIEYTR NPLRVFELDF EENLRIIRYC VKYRKRIIFP STSEVYGMCS DKYFDEDHSN LIVGPVNKPR WIYSVSKQLL DRVIWAYGEK EGLQFTLFRP FNWMGPRLDN LNAARIGSSR AITQLILNLV EGSPIKLIDG GKQKRCFTDI RDGIEALYRI IENAGNRCDG EIINIGNPEN EASIEELGEM LLASFEKHPL RHYFPPFAGF RVVESSSYYG KGYQDVEHRK PSIRNARRCL NWEPKIDMQE TIDETLDFFL RTVDLTDKPS
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	74,318 Da
Sequence Positions	1-660, 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 Q1R9G0
Species	Escherichia coli (strain UTI89 / UPEC)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for arnA recombinant protein	MBS1307287 is a recombinant protein targeting arnA. Also known as Recombinant Escherichia coli Bifunctional polymyxin resistance protein ArnA (arnA). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of arnA 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 arnA. It may not necessarily be applicable to this product.

NCBI GI #	446783039

NCBI Accession #	WP_000860295.1
UniProt Primary Accession #	Q1R9G0
GenBank Nucleotide #	WP_000860295.1
NCBI Official Full Name	MULTISPECIES: bifunctional UDP-glucuronic acid oxidase/UDP-4-amino-4-deoxy-L-arabinose formyltransferase
UniProt Protein Name	Bifunctional polymyxin resistance protein ArnA
UniProt Synonym Protein Names	ArnADH
Protein Family	Bifunctional polymyxin resistance protein
UniProt Gene Name	arnA
UniProt Comments for arnA	Bifunctional enzyme that catalyzes the oxidative decarboxylation of UDP-glucuronic acid (UDP-GlcUA) to UDP-4-keto-arabinose (UDP-Ara4O) and the addition of a formyl group to UDP-4-amino-4-deoxy-L-arabinose (UDP-L-Ara4N) to form UDP-L-4-formamido-arabinose (UDP-L-Ara4FN). The modified arabinose is attached to lipid A and is required for resistance to polymyxin and cationic antimicrobial peptides.
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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