Periplasmic Nitrate Reductase (napA) Recombinant Protein

PRODUCT OVERVIEW

Product Name	Periplasmic nitrate reductase (napA), Recombinant Protein
Full Product Name	Recombinant Escherichia coli O1:K1 / APEC Periplasmic nitrate reductase (napA)
Product Gene Name	napA recombinant protein
Sequence	VVGQQEAIKW DKAPCRFCGT GCGVLVGTQQ GRVVACQGDP DAPVNRGLNC IKGYFLPKIM YGKDRLTQPL LRMKNGKYDK EGEFTPITWD QAFDVMEDKF KTALKEKGPE SIGMFGSGQW TIWEGYAASK LFKAGFRSNN IDPNARHCMA SAVVGFMRTF GMDEPMGCYD DIEQADAFVL WGSNMAEMHP ILWSRITNRR LSNQNVTVAV LSTYQHRSFE LADNGIIFTP QSDLVILNYI ANYIIQNNAI NQDFFSKHVN LRKGATDIGY GLRPTHPLEK AAKNPGSDAS EPMSFEDYKA FVAEYTLEKT AEMTGVPKDQ LEQLAQLYAD PNKKVISYWT MGFNQHTRGV WANNLVYNLH LLTGKISQPG CGPFSLTGQP SACGTAREVG TFAHRLPADM VVTNEKHRDI CEKKWNIPSG TIPAKIGLHA VAQDRALKDG KLNVYWTMCT NNMQAGPNIN EERMPGWRDP RNFIIVSDPY PTVSALAADL ILPTAMWVEK EGAYGNAERR TQFWRQQVQA PGEAKSDLWQ LVQFSRRFKT EEVWPEELLA KKPELRGKTL YEVLYATPEV SKFPVSELAE DQLNDESREL GFYLQKGLFE EYAWFGRGHG HDLAPFDDYH KARGLRWPVV NGKETQWRYS EGNDPYVKAG EGYKFYGKPD GKAVIFALPF EPAAEAPDEE YDLWLSTGRV LEHWHTGSMT RRVPELHRAF PEAVLFIHPL DAKARDLRRG DKVKVVSRRG EVISIVETRG RNRPPQGLVY MPFFDAAQLV NKLTLDATDP LSKETDFKKC AVKLEKV
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	93,058 Da
Sequence Positions	32-828, 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 A1AD59
Species	Escherichia coli O1:K1 / APEC
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for napA recombinant protein	MBS1220651 is a recombinant protein targeting napA. Also known as Recombinant Escherichia coli O1:K1 / APEC Periplasmic nitrate reductase (napA). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of napA 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 napA. It may not necessarily be applicable to this product.

NCBI GI #	446700698
NCBI Accession #	WP_000778044.1

UniProt Primary Accession #	A1AD59
GenBank Nucleotide #	WP_000778044.1
NCBI Official Full Name	MULTISPECIES: periplasmic nitrate reductase subunit alpha
UniProt Protein Name	Periplasmic nitrate reductase
Protein Family	Na(+)/H(+) antiporter
UniProt Gene Name	napA
UniProt Comments for napA	Catalytic subunit of the periplasmic nitrate reductase complex NapAB. Receives electrons from NapB and catalyzes the reduction of nitrate to nitrite.
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