NADH-Quinone Oxidoreductase Subunit K (Nuok) (Dhaf_3744) Desulfitobacterium Hafniense Recombinant Protein

PRODUCT OVERVIEW

Product Name	NADH-quinone oxidoreductase subunit K (nuoK) (Dhaf_3744), Recombinant Protein
Full Product Name	Recombinant Desulfitobacterium hafniense NADH-quinone oxidoreductase subunit K (nuoK)
Product Gene Name	Dhaf_3744 recombinant protein
Product Synonym Gene Name	nuoK
Product Synonym Names	Recombinant NADH-quinone oxidoreductase subunit K (nuoK); NADH-quinone oxidoreductase subunit K EC= 1.6.99.5; NADH dehydrogenase I subunit K NDH-1 subunit K
Sequence	MSISVGLGSY LLVGAMLFCL GLYGVFVKRN IIAILMSIEL MLNAVNINFI AFSRFAPWAN PGTNPLIGQV AAIFVIVVAA AEIAVGLALV IAIYRNRRTT NVDEFNWLKW
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 degree C. For extended storage, store at -20 or -80 degree C.
Molecular Weight	12,032 Da
Sequence Positions	1-110
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.
Chromosome Location	NC_011830.1 (3984112..3984444, complement)
3D Structure	ModBase 3D Structure for B8FRK0
Species	Desulfitobacterium hafniense (strain DCB-2 / DSM 10664)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Dhaf_3744 recombinant protein	MBS1215424 is a recombinant protein targeting Dhaf_3744. Also known as Recombinant Desulfitobacterium hafniense NADH-quinone oxidoreductase subunit K (nuoK). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of Dhaf_3744 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 Dhaf_3744. It may not necessarily be applicable to this product.

NCBI GI #	219669761
NCBI GeneID	7260765

NCBI Accession #	YP_002460196.1
UniProt Primary Accession #	B8FRK0
UniProt Related Accession #	EAM96627
GenBank Nucleotide #	NC_011830.1
NCBI Official Full Name	NADH-ubiquinone oxidoreductase subunit 4L
NCBI Official Symbol	Dhaf_3744
UniProt Protein Name	NADH-quinone oxidoreductase subunit K
UniProt Synonym Protein Names	NADH dehydrogenase I subunit K; NDH-1 subunit K
UniProt Gene Name	nuoK
UniProt Entry Name	NUOK_DESHD
NCBI Protein Information	NADH-ubiquinone oxidoreductase subunit 4L
UniProt Comments for Dhaf_3744	Function: NDH-1 shuttles electrons from NADH, via FMN and iron-sulfur (Fe-S) centers, to quinones in the respiratory chain. The immediate electron acceptor for the enzyme in this species is believed to be a menaquinone. Couples the redox reaction to proton translocation (for every two electrons transferred, four hydrogen ions are translocated across the cytoplasmic membrane), and thus conserves the redox energy in a proton gradient By similarity. HAMAP-Rule MF_01456 Catalytic activity: NADH + quinone = NAD+ + quinol. HAMAP-Rule MF_01456 Subunit structure: NDH-1 is composed of 14 different subunits. Subunits NuoA, H, J, K, L, M, N constitute the membrane sector of the complex By similarity. Subcellular location: Cell membrane; Multi-pass membrane protein By similarity HAMAP-Rule MF_01456. Sequence similarities: Belongs to the complex I subunit 4L family.
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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