NADH-Quinone Oxidoreductase Subunit I (nuoI) Rickettsia Rickettsii Recombinant Protein

PRODUCT OVERVIEW

Product Name	NADH-quinone oxidoreductase subunit I (nuoI), Recombinant Protein
Full Product Name	Recombinant Rickettsia rickettsii NADH-quinone oxidoreductase subunit I (nuoI)
Product Gene Name	nuoI recombinant protein
Sequence	MINYLKSFFL YEIVRGMALT LKYFFKPKVT INYPYEKSPI SPRFKGEHAL RRYEHGEERC IACKLCEAIC PAQAIVIEAD EREDGSRRTT RYDIDMTKCI YCGLCQEACP VDAIVEGPNF EFASLTHTAL IYDKERLLQN GDRWEQALAS KLHKDYEYR
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	18,594 Da
Sequence Positions	1-159, 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 B0BVB0
Species	Rickettsia rickettsii (strain Iowa)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for nuoI recombinant protein	MBS1258534 is a recombinant protein targeting nuoI. Also known as Recombinant Rickettsia rickettsii NADH-quinone oxidoreductase subunit I (nuoI). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of nuoI 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 nuoI. It may not necessarily be applicable to this product.

NCBI GI #	501101503
NCBI Accession #	WP_012151338.1
UniProt Primary Accession #	B0BVB0
GenBank Nucleotide #	WP_012151338.1
NCBI Official Full Name	NADH-quinone oxidoreductase subunit I
UniProt Protein Name	NADH-quinone oxidoreductase subunit I
UniProt Synonym Protein Names	NADH dehydrogenase I subunit I

Protein Family	NADH-quinone oxidoreductase
UniProt Gene Name	nuoI
UniProt Comments for nuoI	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 ubiquinone. 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.
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