NAD (P)h-Quinone Oxidoreductase Subunit O (ndhO) Thermosynechococcus Elongatus Recombinant Protein

PRODUCT OVERVIEW

Product Name	NAD (P)H-quinone oxidoreductase subunit O (ndhO), Recombinant Protein
Full Product Name	Recombinant Thermosynechococcus elongatus NAD (P)H-quinone oxidoreductase subunit O (ndhO)
Product Gene Name	ndhO recombinant protein
Product Synonym Gene Name	ndhO
Sequence	MAIKKGDLVK VVAEKLANSL EALASDHRYP PYLFEGRGEV VDIRGDYAQI KFPVPTPTVW LRLDQLEVAQ
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	7,867 Da
Sequence Positions	1-70, 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 Q8DMU4
Species	Thermosynechococcus elongatus (strain BP-1)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for ndhO recombinant protein	MBS1344354 is a recombinant protein targeting ndhO. Also known as Recombinant Thermosynechococcus elongatus NAD (P)H-quinone oxidoreductase subunit O (ndhO). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of ndhO 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 ndhO. It may not necessarily be applicable to this product.

NCBI GI #	22297561
NCBI GeneID	1010636
NCBI Accession #	NP_680808.1
UniProt Primary Accession #	Q8DMU4
UniProt Related Accession #	Q8DMU4
GenBank Nucleotide #	NC_004113.1

NCBI Official Full Name	hypothetical protein tsl0017
NCBI Official Symbol	tsl0017
UniProt Protein Name	NAD(P)H-quinone oxidoreductase subunit O
UniProt Synonym Protein Names	NAD(P)H dehydrogenase I subunit O; NDH-1 subunit O; NDH-O
Protein Family	NAD(P)H-quinone oxidoreductase
UniProt Gene Name	ndhO
NCBI Protein Information	hypothetical protein
UniProt Comments for ndhO	NDH-1 shuttles electrons from an unknown electron donor, via FMN and iron-sulfur (Fe-S) centers, to quinones in the respiratory and/or the photosynthetic chain. The immediate electron acceptor for the enzyme in this species is believed to be plastoquinone. Couples the redox reaction to proton translocation, and thus conserves the redox energy in a proton gradient. Cyanobacterial NDH-1 also plays a role in inorganic carbon-concentration ().
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