NAD (P)h-Quinone Oxidoreductase Subunit 4l, Chloroplastic (ndhE) Cicer Arietinum Recombinant Protein

PRODUCT OVERVIEW

Product Name	NAD (P)H-quinone oxidoreductase subunit 4L, chloroplastic (ndhE), Recombinant Protein
Full Product Name	Recombinant Cicer arietinum NAD (P)H-quinone oxidoreductase subunit 4L, chloroplastic
Product Gene Name	ndhE recombinant protein
Product Synonym Gene Name	ndhE
Product Synonym Names	Recombinant NAD (P)H-quinone oxidoreductase subunit 4L, chloroplastic; NAD(P)H-quinone oxidoreductase subunit 4L, chloroplastic EC= 1.6.5.-; NAD(P)H dehydrogenase subunit 4L NADH-plastoquinone oxidoreductase subunit 4L
Sequence	MMLEHVLVLS AYLFSIGIYG LITSRNMVRA LMCLELILNA VNINLVTFSD FFDNRQLKGN IFSIFVIAIA AAEAAIGLAI VSSIYRNRKS TRINQSNLLN K
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	11,267 Da
Sequence Positions	1-101
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_011163.1 (117439..117744)
3D Structure	ModBase 3D Structure for B5LMS4
Species	Cicer arietinum (Chickpea) (Garbanzo)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for ndhE recombinant protein	MBS1065166 is a recombinant protein targeting ndhE. Also known as Recombinant Cicer arietinum NAD (P)H-quinone oxidoreductase subunit 4L, chloroplastic. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of ndhE 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 ndhE. It may not necessarily be applicable to this product.

NCBI GI #	197294163
NCBI GeneID	6797541
NCBI Accession #	YP_002149783.1

UniProt Primary Accession #	B5LMS4
UniProt Related Accession #	B5LMS4
GenBank Nucleotide #	NC_011163.1
NCBI Official Full Name	NADH-plastoquinone oxidoreductase subunit 4L
NCBI Official Symbol	ndhE
UniProt Protein Name	NAD(P)H-quinone oxidoreductase subunit 4L, chloroplastic
UniProt Synonym Protein Names	NAD(P)H dehydrogenase subunit 4L; NADH-plastoquinone oxidoreductase subunit 4L
Protein Family	NAD(P)H-quinone oxidoreductase
UniProt Gene Name	ndhE
UniProt Entry Name	NU4LC_CICAR
NCBI Protein Information	NADH dehydrogenase subunit 4L
UniProt Comments for ndhE	Function: NDH shuttles electrons from NAD(P)H:plastoquinone, via FMN and iron-sulfur (Fe-S) centers, to quinones in the photosynthetic chain and possibly in a chloroplast respiratory 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 By similarity. HAMAP-Rule MF_01456 Catalytic activity: NAD(P)H + plastoquinone = NAD(P)+ + plastoquinol. HAMAP-Rule MF_01456 Subunit structure: NDH is composed of at least 16 different subunits, 5 of which are encoded in the nucleus By similarity. Subcellular location: Plastid › chloroplast thylakoid 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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