NAD (P) H-Quinone Oxidoreductase Subunit I, Chloroplastic (ndhI) Recombinant Protein

PRODUCT OVERVIEW

Product Name	NAD (P) H-quinone oxidoreductase subunit I, chloroplastic (ndhI), Recombinant Protein
Full Product Name	Recombinant NAD (P) H-quinone oxidoreductase subunit I, chloroplastic (ndhI)
Product Gene Name	ndhI recombinant protein
Product Synonym Names	NAD(P)H-quinone oxidoreductase subunit I, chloroplastic; EC=1.6.5.-; NAD(P)H dehydrogenase subunit I; NDH subunit I; NADH-plastoquinone oxidoreductase subunit I
Sequence	MFPMVTEFMN YGQQTVRAAR YIGQGFMITL SHANRLPVTI QYPYEKLITS ERFRGRIHFE FDKCIACEVC VRVCPIDLPV VDWKLETDIR KKRLLNYSID FGICIFCGNC VEYCPTNCLS MTEEYELSTY DRHELNYNQI ALGRLPMSII DDYTIRTIFN LPEIKT
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	19,509 Da
Sequence Positions	1-166aa; 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 Q8HVN8
Species	Oteiza scandens
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for ndhI recombinant protein	MBS1385708 is a recombinant protein targeting ndhI. Also known as Recombinant NAD (P) H-quinone oxidoreductase subunit I, chloroplastic (ndhI). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of ndhI 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 ndhI. It may not necessarily be applicable to this product.

NCBI GI #	75300846
NCBI Accession #	Q8HVN8.1
UniProt Primary Accession #	Q8HVN8
NCBI Official Full Name	NAD(P)H-quinone oxidoreductase subunit I, chloroplastic
UniProt Protein Name	NAD(P)H-quinone oxidoreductase subunit I, chloroplastic

UniProt Synonym Protein Names	NAD(P)H dehydrogenase subunit I; NADH-plastoquinone oxidoreductase subunit I
Protein Family	NAD(P)H-quinone oxidoreductase
UniProt Gene Name	ndhI
UniProt Synonym Gene Names	NDH subunit I
UniProt Entry Name	NDHI_OTESC
UniProt Comments for ndhI	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.
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