NADH-Quinone Oxidoreductase Subunit D (nuoD) Rhizobium Loti Recombinant Protein

PRODUCT OVERVIEW

Product Name	NADH-quinone oxidoreductase subunit D (nuoD), Recombinant Protein
Full Product Name	Recombinant Rhizobium loti NADH-quinone oxidoreductase subunit D (nuoD)
Product Gene Name	nuoD recombinant protein
Product Synonym Gene Name	nuoD
Sequence	MAETSVRNFN INFGPQHPAA HGVLRLVLEL DGEVVDRVDP HIGLLHRGTE KLIEAKTYLQ AVPYLDRLDY CAPMNQEHAF ALAAERLLGI EVPKRGQLIR VLYCEIGRIM SHILNVTTQA MDVGALTPPL WGFVEREKLM VFYERASGSR MHAAYFRPGG VHQDLPRQLV EDIGKWIDPF LKSIDDLDRL LTGNRIFKQR NVDIGIVSLA DAWAWGFSGV MVRGSGAAWD LRKSQPYECY SEMDFDIPIG KNGDCYDRYL VRMEEMRQSA RIMRQCVDLL LGKESTGPVS NLDGKVVPPK RAAMKRSMEA LIHHFKLYTE GYRVPAGEVY AAVEAPKGEF GVYLVSDGTN KPYRCKLRAP GFAHLQAMDF LCRGHLLADV TAVLGSLDIV FGEVDR
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	44,506 Da
Sequence Positions	1-396, 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 Q98KQ8
Species	Rhizobium loti (strain MAFF303099) (Mesorhizobium loti)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for nuoD recombinant protein	MBS1446471 is a recombinant protein targeting nuoD. Also known as Recombinant Rhizobium loti NADH-quinone oxidoreductase subunit D (nuoD). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of nuoD 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 nuoD. It may not necessarily be applicable to this product.

NCBI GI #	499212569
NCBI Accession #	WP_010910109.1
UniProt Primary Accession #	Q98KQ8
GenBank Nucleotide #	WP_010910109.1

NCBI Official Full Name	MULTISPECIES: NADH-quinone oxidoreductase subunit D
UniProt Protein Name	NADH-quinone oxidoreductase subunit D
UniProt Synonym Protein Names	NADH dehydrogenase I subunit D
Protein Family	NADH-quinone oxidoreductase
UniProt Gene Name	nuoD
UniProt Comments for nuoD	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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