NADH-Quinone Oxidoreductase Subunit D (nuoD) Burkholderia Thailandensis Recombinant Protein

PRODUCT OVERVIEW

Product Name	NADH-quinone oxidoreductase subunit D (nuoD), Recombinant Protein
Full Product Name	Recombinant Burkholderia thailandensis NADH-quinone oxidoreductase subunit D (nuoD)
Product Gene Name	nuoD recombinant protein
Product Synonym Gene Name	nuoD
Sequence	MAEIKNYTLN FGPQHPAAHG VLRLVLELDG EVIQRADPHI GLLHRATEKL AESKTFIQSV PYMDRLDYVS MMVNEHGYVL AIEKLLGIEV PERAQYIRVL FDEITRVLNH LMWIGAHALD VGAMAVFLYA FREREDLMDV YEAVSGARMH AAYYRPGGVY RDLPEAMPQY KASKIRNERA LAKMNEARSG SVLDFIDDFF TRFPKCVDEY ETLLTDNRIW KQRLVGIGVV SPERALQLGL TGPMIRGSGI AWDLRKKQPY EVYDRIDFDI PVGVNGDCYD RYLVRVEEMR QSTRIAKQCI EWLRENPGPV ITDNHKVAPP SRVGMKTNME DLIHHFKLFT EGFHVPEGEA YAAVEHPKGE FGIYLVSDGA NKPYRLKIRA PGYAHLSALD EMARGHMIAD AVTIIGTQDI VFGEIDR
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	47,451 Da
Sequence Positions	1-417, 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 Q2SZN2
Species	Burkholderia thailandensis (strain E264 / 700388 / DSM 13276 / CIP 106301)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for nuoD recombinant protein	MBS1343328 is a recombinant protein targeting nuoD. Also known as Recombinant Burkholderia thailandensis 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 #	497577988
NCBI Accession #	WP_009892172.1
UniProt Primary Accession #	Q2SZN2

GenBank Nucleotide #	WP_009892172.1
NCBI Official Full Name	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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