# NADH-Quinone Oxidoreductase Subunit I (nuoI) Thermobifida Fusca Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | NADH-quinone oxidoreductase subunit I (nuoI), Recombinant Protein |
| **Full Product Name** | Recombinant Thermobifida fusca NADH-quinone oxidoreductase subunit I (nuoI) |
| **Product Gene Name** | nuoI recombinant protein |
| **Product Synonym Gene Name** | nuoI |
| **Sequence** | MLEWLNPVKG FGVTFHTMFK KVPTVEYPEV KAPTMPRFHG RHQLNRWPDG LEKCIGCELC AWACPADAIY VEAGDNTEEE RYSPGERYGR VYQINYLRCI LCGLCVEACP TRALTMTNEY ELADDSRESL IYTKEQLLAP LQQGMEAPPH PMRLGETEKD YYRLGRDDNA AARADEQNSE AVQ |
| **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** | 20,912 Da |
| **Sequence Positions** | 1-183, 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 Q47LF2 |
| **Species** | Thermobifida fusca (strain YX) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for nuoI recombinant protein** | MBS1403069 is a recombinant protein targeting nuoI. Also known as Recombinant Thermobifida fusca NADH-quinone oxidoreductase subunit I (nuoI). Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |
| **Other Notes** | Small volumes of nuoI 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 nuoI. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 499612376 |
| **NCBI Accession #** | WP_011293110.1 |
| **UniProt Primary Accession #** | Q47LF2 |
| **GenBank Nucleotide #** | WP_011293110.1 |
| **NCBI Official Full Name** | NADH-quinone oxidoreductase subunit I |
| **UniProt Protein Name** | NADH-quinone oxidoreductase subunit I |

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| **UniProt Synonym Protein Names** | NADH dehydrogenase I subunit I |
| **Protein Family** | NADH-quinone oxidoreductase |
| **UniProt Gene Name** | nuoI |
| **UniProt Comments for nuoI** | 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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