

# Recombinant Human NADH Dehydrogenase (ubiquinone) Fe-S Protein 4, 18kDa (NADH-coenzyme Q reductase)

**Cat. No.** NDUFS4-2509H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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| <b>Product Overview</b> | Recombinant human NDUFS4 protein was expressed in E. coli and purified by using conventional chromatography. MW: 15.5 kDa.                                                                                                                                                                                                                                                                                                                                     |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>ProteinLength</b>    | 43-175aa                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Description</b>      | NDUFS4 is an accessory subunit of the mitochondrial membrane respiratory chain NADH dehydrogenase, the first multi-subunit enzyme complex of the mitochondrial respiratory chain. Complex I plays a vital role in cellular ATP production, the primary source of energy for many crucial processes in living cells. It removes electrons from NADH and passes them by a series of different protein-coupled redox centers to the electron acceptor ubiquinone. |
| <b>Form</b>             | Liquid. In 20 mM Tris-HCl buffer (pH 8.0) containing 30% glycerol.                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Molecular Mass</b>   | 15.5 kDa (134aa), confirmed by MALDI-TOF.                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>AA Sequence</b>      | MAQDQTQDTQ LITVDEKLDI TTLTGVPEEH IKTRKVRIFV PARNNMQSGV<br>NNTKKWKMEF DTRERWENPL MGWASTADPL SNMVLTFSTK EDAVSFAEKN<br>GWSYDIEERK VPKPKSKSYG ANFSWNKRTR VSTK                                                                                                                                                                                                                                                                                                      |

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| <b>Purity</b>           | >90% by SDS - PAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Applications</b>     | SDS-PAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Storage</b>          | Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Concentration</b>    | 0.5 mg/ml (determined by Bradford assay)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Gene Name</b>        | NDUFS4 NADH dehydrogenase (ubiquinone) Fe-S protein 4, 18kDa (NADH-coenzyme Q reductase) [ Homo sapiens ]                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Official Symbol</b>  | NDUFS4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Synonyms</b>         | NDUFS4; NADH dehydrogenase (ubiquinone) Fe-S protein 4, 18kDa (NADH-coenzyme Q reductase); NADH dehydrogenase (ubiquinone) Fe S protein 4 (18kD) (NADH coenzyme Q reductase); NADH dehydrogenase [ubiquinone] iron-sulfur protein 4, mitochondrial; AQDQ; CI 18; complex I 18kDa subunit; CI-AQDQ; CI-18 kDa; complex I-AQDQ; complex I-18 kDa; NADH-coenzyme Q reductase, 18-KD; NADH-ubiquinone oxidoreductase 18 kDa subunit; NADH dehydrogenase (ubiquinone) iron-sulfur protein 4; mitochondrial respiratory chain complex I (18-KD subunit); CI-18; |
| <b>Gene ID</b>          | 4724                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>mRNA Refseq</b>      | NM_002495                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Protein Refseq</b>   | NP_002486                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

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| <b>MIM</b>                 | 602694                                                                                                                                                                                                                                                                                                                                 |
| <b>UniProt ID</b>          | O43181                                                                                                                                                                                                                                                                                                                                 |
| <b>Chromosome Location</b> | 5q11.1                                                                                                                                                                                                                                                                                                                                 |
| <b>Pathway</b>             | Alzheimers disease, organism-specific biosystem; Alzheimers disease, conserved biosystem; Electron Transport Chain, organism-specific biosystem; Huntingtons disease, organism-specific biosystem; Huntingtons disease, conserved biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; |
| <b>Function</b>            | NADH dehydrogenase (ubiquinone) activity; contributes_to NADH dehydrogenase (ubiquinone) activity; oxidoreductase activity, acting on NADH or NADPH;                                                                                                                                                                                   |

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