# Recombinant Human NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 2, 8kDa, His-tagged

**Cat. No.** NDUFA2-7202H **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant human NDUFA2 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques. MW: 13.3 kDa. |
| **Species** | Human |
| **Source** | E.coli |
| **ProteinLength** | 1-99aa |
| **Description** | NDUFA2 is a subunit of the hydrophobic protein fraction of the NADH:ubiquinone oxidoreductase (complex 1), the first enzyme complex in the electron transport chain located in the inner mitochondrial membrane, and may be involved in regulating complex I activity or its assembly via assistance in redox. Mutations in this protein are associated with Leigh syndrome, an early-onset progressive neurodegenerative disorder. |
| **Form** | Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol,1mM DTT |
| **Molecular Mass** | 13.3 kDa (122aa) confirmed by MALDI-TOF |
| **AA Sequence** | MGSSHHHHHH SSGLVPRGSH MGSMAAAAAS RGVGAKLGLR EIRIHLCQRS PGSQGVRDFI EKRYVELKKA NPDLPILIRE CSDVQPKLWA RYAFGQETNV |

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| | PLNNFSADQV TRALENVLSG KA |
| **Purity** | >95% by SDS - PAGE |
| **Applications** | SDS-PAGE |
| **Storage** | 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. |
| **Concentration** | 1 mg/ml (determined by Bradford assay) |

## GENE INFORMATION

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| **Gene Name** | NDUFA2 NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 2, 8kDa [ Homo sapiens ] |
| **Official Symbol** | NDUFA2 |
| **Synonyms** | NDUFA2; NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 2, 8kDa; NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 2 (8kD, B8); NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 2; B8; complex I B8 subunit; NADH-ubiquinone oxidoreductase subunit CI-B8; CD14; CIB8; |
| **Gene ID** | 4695 |
| **mRNA Refseq** | NM_001185012 |
| **Protein Refseq** | NP_001171941 |
| **MIM** | 602137 |

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| **UniProt ID** | O43678 |
| **Chromosome Location** | 5q31.2 |
| **Pathway** | 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; |
| **Function** | NADH dehydrogenase (ubiquinone) activity; |

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