

## Recombinant Human NDUFS4

Cat. No. NDUFS4-367H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human NDUFS4 produced in <i>E. Coli</i> is a single, non-glycosylated, polypeptide chain containing 134 amino acids (43-175 a.a.) and having a molecular mass of 15.5 kDa. The NDUFS4 is purified by proprietary chromatographic techniques.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	43-175 a.a.
<b>Description</b>	NDUFS4 is a subunit of the mitochondrial membrane respiratory chain NADH dehydrogenase (Complex I), the primary multi-subunit enzyme complex of the mitochondrial respiratory chain. Complex I is involved in cellular ATP production, the main source of energy for numerous vital processes in living cells. NDUFS4 removes electrons from NADH and passes them by a series of diverse protein-coupled redox centers to the electron acceptor ubiquinone. NDUFS4 presents a hotspot of mutations in the genetic apparatus of oxidative phosphorylation and the correct assembly of the subunit it encodes is essential for completion of the assembly of complex I.
<b>Amino Acid Sequence</b>	MAQDQTQDTQ LITVDEKLDI TLLTGVPEEH IKTRKVRIFV PARNNMQSGV NNTKKWKMEF DTRERWENPL MGWASTADPL SNMVLTFSTK EDAVSFAEKN GWSYDIEERK VPKPKSKSYG ANFSWNRKTR VSTK.
<b>Physical Appearance</b>	Sterile Filtered colorless solution.

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<b>Formulation</b>	The NDUFS4 solution contains 20mM Tris pH-8 & 30% glycerol.
<b>Purity</b>	Greater than 90.0% as determined by SDS-PAGE.
<b>Stability</b>	NDUFS4 although stable 4°C for 4 weeks, should be stored desiccated below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

## GENE INFORMATION

<b>Gene Name</b>	NDUFS4 NADH dehydrogenase (ubiquinone) Fe-S protein 4, 18kDa (NADH-coenzyme Q reductase) [ Homo sapiens ]
<b>Synonyms</b>	NDUFS4; NADH dehydrogenase (ubiquinone) Fe-S protein 4, 18kDa (NADH-coenzyme Q reductase); NADH dehydrogenase (ubiquinone) Fe-S protein 4; NADH dehydrogenase (ubiquinone) iron-sulfur protein 4; NADH-coenzyme Q reductase, 18-KD; NADH-ubiquinone oxidoreductase 18 kDa subunit; mitochondrial respiratory chain complex I (18-KD subunit); AQQDQ
<b>Gene ID</b>	4724
<b>mRNA Refseq</b>	NM_002495
<b>Protein Refseq</b>	NP_002486
<b>MIM</b>	602694
<b>UniProt ID</b>	O43181
<b>Chromosome Location</b>	5q11.1

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<b>Pathway</b>	Alzheimer"s disease; Huntington"s disease; Metabolic pathways; Metabolic pathways; Parkinson"s disease; Diabetes pathways; Electron Transport Chain; Integration of energy metabolism
<b>Function</b>	NADH dehydrogenase (ubiquinone) activity; oxidoreductase activity, acting on NADH or NADPH

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