Recombinant Human NDUFS4

Cat. No. NDUFS4-28208TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length mature Human Ndufs4. 134 amino acids with a predicted MWt 15.5 kDa.
Species	Human
Source	E.coli
ProteinLength	133 amino acids
Description	This gene encodes an accessory subunit of the mitochondrial membrane respiratory chain NADH dehydrogenase (Complex I), or NADH:ubiquinone oxidoreductase, 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. In well-coupled mitochondria, the electron flux leads to ATP generation via the building of a proton gradient across the inner membrane. Complex I is composed of at least 41 subunits, of which 7 are encoded by the mitochondrial genome and the remainder by nuclear genes.
Molecular Weight	15.500kDa
Form	Liquid
Purity	>90% by SDS-PAGE

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Storage buffer	pH: 8.00Constituents:0.32% Tris HCl, 30% Glycerol
Storage	Please see Notes section
Sequences of amino acids	MAQDQTQDTQ LITVDEKLDI TTLTGVPEEH IKTRKVRIFV PARNNMQSGV NNTKKWKMEF DTRERWENPL MGWASTADPL SNMVLTFSTK EDAVSFAEKN GWSYDIEERK VPKPKSKSYG ANFSWNKRTR VSTK
Sequence Similarities	Belongs to the complex I NDUFS4 subunit family.

GENE INFORMATION

Gene Name	NDUFS4 NADH dehydrogenase (ubiquinone) Fe-S protein 4, 18kDa (NADH-coenzyme Q reductase) [Homo sapiens]
Official Symbol	NDUFS4
Synonyms	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
Gene ID	4724
mRNA Refseq	NM_002495
Protein Refseq	NP_002486
MIM	602694

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Uniprot ID	O43181
Chromosome Location	5q11.1
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;
Function	NADH dehydrogenase (ubiquinone) activity; contributes_to NADH dehydrogenase (ubiquinone) activity; oxidoreductase activity, acting on NADH or NADPH;

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