Recombinant Human NDUFS1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. NDUFS1-4064H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	NDUFS1 MS Standard C13 and N15-labeled recombinant protein (NP_004997) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	The protein encoded by this gene belongs to the complex I 75 kDa subunit family. Mammalian complex I is composed of 45 different subunits. It locates at the mitochondrial inner membrane. This protein has NADH dehydrogenase activity and oxidoreductase activity. It transfers electrons from NADH to the respiratory chain. The immediate electron acceptor for the enzyme is believed to be ubiquinone. This protein is the largest subunit of complex I and it is a component of the iron-sulfur (IP) fragment of the enzyme. It may form part of the active site crevice where NADH is oxidized. Mutations in this gene are associated with complex I deficiency. Several transcript variants encoding different isoforms have been found for this gene.
Molecular Mass	79.44 kDa
AA Sequence	MLRIPVRKALVGLSKSPKGCVRTTATAASNLIEVFVDGQSVMVEPGTTVLQACEKVG MQIPRFCYHERLSVAGNCRMCLVEIEKAPKVVAACAMPVMKGWNILTNSEKSKKAR EGVMEFLLANHPLDCPICDQGGECDLQDQSMMFGNDRSRFLEGKRAVEDKNIGPL VKTIMTRCIQCTRCIRFASEIAGVDDLGTTGRGNDMQVGTYIEKMFMSELSGNIIDICP

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	VGALTSKPYAFTAQPWETRKTESIDVMDAVGSNIVVSTRTGEVMRILPRMHEDINEE WISDKTRFAYDGLKRQRLTEPMVRNEKGLLTYTSWEDALSRVAGMLQSFQGKDVA AIAGGLVDAEALVALKDLLNRVDSDTLCTEEVFPTAGAGTDLRSNYLLNTTIAGVEEA DVVLLVGTNPRFEAPLFNARIRKSWLHNDLKVALIGSPVDLTYTYDHLGDSPKILQDIA SGSHPFSQVLKEAKKPMVVLGSSALQRNDGAAILAAVSSIAQKIRMTSGVTGDWKV MNILHRIASQVAALDLGYKPGVEAIRKNPPKVLFLLGADGGCITRQDLPKDCFIIYQGH HGDVGAPIADVILPGAAYTEKSATYVNTEGRAQQTKVAVTPPGLAREDWKIIRALSEI AGMTLPYDTLDQVRNRLEEVSPNLVRYDDIEGANYFQQANELSKLVNQQLLADPLV PPQLTIKDFYMTDSISRASQTMAKCVKAVTEGAQAVEEPSICTRTRPLEQKLISEEDL AANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 μg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	NDUFS1 NADH:ubiquinone oxidoreductase core subunit S1 [Homo sapiens (human)]
Official Symbol	NDUFS1
Synonyms	NDUFS1; NADH dehydrogenase (ubiquinone) Fe-S protein 1, 75kDa (NADH-coenzyme Q reductase); NADH dehydrogenase (ubiquinone) Fe S protein 1 (75kD)

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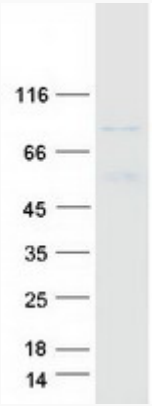
	(NADH coenzyme Q reductase); NADH-ubiquinone oxidoreductase 75 kDa subunit, mitochondrial; CI 75k; complex I 75kDa subunit; NADH ubiquinone oxidoreductase 75 kDa subunit; mitochondrial; complex I, mitochondrial respiratory chain, 75-kD subunit; mitochondrial NADH-ubiquinone oxidoreductase 75 kDa subunit; CI-75k; CI-75Kd; PRO1304; MGC26839;
Gene ID	4719
mRNA Refseq	NM_005006
Protein Refseq	NP_004997
MIM	157655
UniProt ID	P28331
SDS-PAGE	

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