Recombinant Full Length Human NDUFS1 Protein, Flag tagged

Cat. No. NDUFS1-18HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant protein of human NADH dehydrogenase (ubiquinone) Fe-S protein 1, 75kDa (NADH-coenzyme Q reductase) (NDUFS1), nuclear gene encoding mitochondrial protein with Flag tag was expressed in HEK293T.
Species	Human
Source	HEK293T
ProteinLength	1-727 aa
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.
Form	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Molecular Mass	76.9 kDa
AASequence	MLRIPVRKALVGLSKSPKGCVRTTATAASNLIEVFVDGQSVMVEPGTTVLQACEKVG

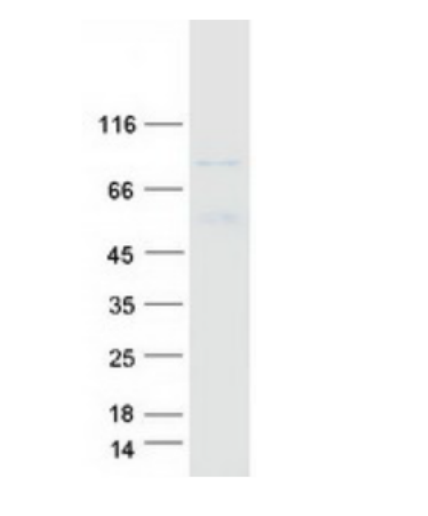
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	MQIPRFCYHERLSVAGNCRMCLVEIEKAPKVVAACAMPVMKGWNILTNSEKSKKAR EGVMEFLLANHPLDCPICDQGGECDLQDQSMMFGNDRSRFLEGKRAVEDKNIGPL VKTIMTRCIQCTRCIRFASEIAGVDDLGTTGRGNDMQVGTYIEKMFMSELSGNIIDICP VGALTSKPYAFTAQPWETRKTESIDVMDAVGSNIVVSTRTGEVMRILPRMHEDINEE WISDKTRFAYDGLKRQRLTEPMVRNEKGLLTYTSWEDALSRVAGMLQSFQGKDVA AIAGGLVDAEALVALKDLLNRVDSDTLCTEEVFPTAGAGTDLRSNYLLNTTIAGVEEA DVVLLVGTNPRFEAPLFNARIRKSWLHNDLKVALIGSPVDLTYTYDHLGDSPKILQDIA SGSHPFSQVLKEAKKPMVVLGSSALQRNDGAAILAAVSSIAQKIRMTSGVTGDWKV MNILHRIASQVAALDLGYKPGVEAIRKNPPKVLFLLGADGGCITRQDLPKDCFIIYQGH HGDVGAPIADVILPGAAYTEKSATYVNTEGRAQQTKVAVTPPGLAREDWKIIRALSEI AGMTLPYDTLDQVRNRLEEVSPNLVRYDDIEGANYFQQANELSKLVNQQLLADPLV PPQLTIKDFYMTDSISRASQTMAKCVKAVTEGAQAVEEPSICTRTRPLEQKLISEEDL AANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Notes	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage	Store at -80 centigrade. Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Concentration	>0.05 μg/μL as determined by microplate BCA method

GENE INFORMATION

Gene Name	NDUFS1 NADH:ubiquinone oxidoreductase core subunit S1 [Homo sapiens (human)]
Official Symbol	NDUFS1

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Synonyms	NDUFS1; NADH dehydrogenase (ubiquinone) Fe-S protein 1, 75kDa (NADH-coenzyme Q reductase); NADH dehydrogenase (ubiquinone) Fe S protein 1 (75kD) (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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