

Recombinant Full Length Human NDUFS1 Protein, Flag tagged

Cat. No. NDUFS1-15HFL **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 HEK293.
Species	Human
Source	HEK293
ProteinLength	1-611 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	MLRIPVRKALVGLSKSPKGCVRTTATAASNIEVFVDGQSVMVEPGTTVLQACEKVG

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MQIPRFCYHERLSVAGNCRMCLVEIEKAPKVVAACAMPVMKGWNILTNSEKSKKAR
 EGVMEFLLANHPLDCPICDQGGECDLQDQSMFNGNDRSRFLEGKRAVEDKNIGPL
 VKTIMTRCIQCTRCIRFASEIAGVDDLGTGGRGNDMQVGTYIEKMFMSSELSGNIIDICP
 VGALTSKPYAFTAQPWETRKTESIDVMDAVGSNIVVSTRTGEVMRILPRMHEDINEE
 WISDKTRFAYDGLKRQRLTEPMVRNEKGLTYTSWEDALSRVAGMLQSFQGKDVA
 AIAGGLVDAEALVALKDLLNRVDSDTLCTEEVFPTAGAGTDLRSNYLLNTTIAGVEEA
 DVVLLVGTNPRFEAPLFNARIRKSWLHNDLKVALIGSPVDLTYYDHLGDSPKILQDIA
 SGSHPFSSQVLKEAKKPMVVLGSSALQRNDGAAILAAVSSIAQKIRMTSGVTGDWKV
 MNILHRIASQVAALDLGYKPGVEAIRKNPPKVLFLLGADGGCITRQDLPKDCFIYQGH
 HGDVGAPIADVILPGAAYTEKSATYVNTGRAQQTKVAVTPPGLAREDWKIIRALSEI
 AGMTLPYDTLDQVRNRLEEVSPLVRYDDIEGANYFQQANELSKLVNQQLLADPLV
 PPQLTIKDFYMTDSISRASQTMACVKAVTEGAQAVEEPSICTRTRPLEQKLISEEDL
 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:ubiquinone oxidoreductase core subunit S1; CI-75k; MC1DN5; CI-75Kd; PRO1304; NADH-ubiquinone oxidoreductase 75 kDa subunit, mitochondrial; NADH dehydrogenase (ubiquinone) Fe-S protein 1, 75kDa (NADH-coenzyme Q reductase); complex I 75kDa subunit; complex I, mitochondrial respiratory chain, 75-kD subunit; mitochondrial NADH-ubiquinone oxidoreductase 75 kDa subunit; EC 7.1.1.2
Gene ID	4719
mRNA Refseq	NM_005006
Protein Refseq	NP_004997
MIM	157655
UniProt ID	P28331
SDS-PAGE	