

Recombinant Human NDUFV1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. NDUFV1-2770H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	NDUFV1 MS Standard C13 and N15-labeled recombinant protein (NP_009034) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	The mitochondrial respiratory chain provides energy to cells via oxidative phosphorylation and consists of four membrane-bound electron-transporting protein complexes (I-IV) and an ATP synthase (complex V). This gene encodes a 51 kDa subunit of the NADH:ubiquinone oxidoreductase complex I; a large complex with at least 45 nuclear and mitochondrial encoded subunits that liberates electrons from NADH and channels them to ubiquinone. This subunit carries the NADH-binding site as well as flavin mononucleotide (FMN)- and Fe-S-binding sites. Defects in complex I are a common cause of mitochondrial dysfunction; a syndrome that occurs in approximately 1 in 10,000 live births. Mitochondrial complex I deficiency is linked to myopathies, encephalomyopathies, and neurodegenerative disorders such as Parkinson's disease and Leigh syndrome. Alternative splicing results in multiple transcript variants encoding distinct isoforms.
Molecular Mass	50.8 kDa
AA Sequence	MLATRRLGWSLPARVSVRFSGDTTAPKKTSFGSLKDEDRIFTNLYGRHDWRLKGS

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LSRGDWYKTKEILLKGPDWILGEIKTSGLRGRGGAGFPTGLKWSFMNKPSDGRPKY
 LVVNADEGEPTCKDREILRHDPHKLLEGCLVGGRAMGARAAYIYIRGEFYNEASNL
 QVAIREAYEAGLIGNACGSGYDFDVVVRGAGAYICGEETALIESIEGKQGKPRPKP
 PFPADVGVFGCPTTVANVETVAVSPTICRRGGTWFAFGGRERNSGKLFNISGHVN
 HPCTVEEEMSVPLKELIEKHAGGVTGGWDNLLAVIPGGSSTPLIPKSVCEVLMDFD
 ALVQAQTGLGTAIVMDRSTDIVKAIARLIEFYKHESCGQCTPCREGVDWMNKVMA
 RFVRGDARPAEIDSLWEISKQIEGHTICALGDGAAPVQGLIRHFRPELEERMQRFA
 QQHQARQAASRTRPLEQKLISEEDLAANDILDYKDDDDKV

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 NDUFV1 NADH:ubiquinone oxidoreductase core subunit V1 [Homo sapiens (human)]

Official Symbol NDUFV1

Synonyms NDUFV1; NADH dehydrogenase (ubiquinone) flavoprotein 1, 51kDa; NADH dehydrogenase (ubiquinone) flavoprotein 1 (51kD); NADH dehydrogenase [ubiquinone] flavoprotein 1, mitochondrial; CI 51K; complex I 51kDa subunit; NADH dehydrogenase [ubiquinone] flavoprotein 1; mitochondrial; complex I 51 kda subunit;

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complex I, mitochondrial respiratory chain; NADH-ubiquinone oxidoreductase 51 kDa subunit; mitochondrial NADH dehydrogenase ubiquinone flavoprotein 1; mitochondrial NADH:ubiquinone oxidoreductase 51 kda subunit; UQOR1; CI-51K; CI51KD; FLJ59059;

Gene ID [4723](#)

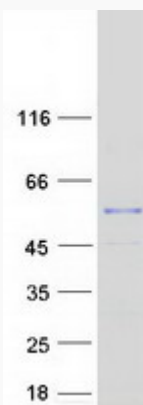
mRNA Refseq [NM_007103](#)

Protein Refseq [NP_009034](#)

MIM [161015](#)

UniProt ID [P49821](#)

SDS-PAGE



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