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-biding 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	MLATRRLLGWSLPARVSVRFSGDTTAPKKTSFGSLKDEDRIFTNLYGRHDWRLKGS

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	LSRGDWYKTKEILLKGPDWILGEIKTSGLRGRGGAGFPTGLKWSFMNKPSDGRPKY LVVNADEGEPGTCKDREILRHDPHKLLEGCLVGGRAMGARAAYIYIRGEFYNEASNL QVAIREAYEAGLIGKNACGSGYDFDVFVVRGAGAYICGEETALIESIEGKQGKPRLKP PFPADVGVFGCPTTVANVETVAVSPTICRRGGTWFAGFGRERNSGTKLFNISGHVN HPCTVEEEMSVPLKELIEKHAGGVTGGWDNLLAVIPGGSSTPLIPKSVCETVLMDFD ALVQAQTGLGTAAVIVMDRSTDIVKAIARLIEFYKHESCGQCTPCREGVDWMNKVMA RFVRGDARPAEIDSLWEISKQIEGHTICALGDGAAWPVQGLIRHFRPELEERMQRFA QQHQARQAASTRTRPLEQKLISEEDLAANDILDYKDDDDKV
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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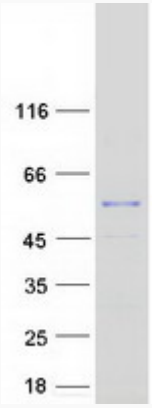
	complex I, mitochondrial respiratory chain; NADH-ubiquinone oxidoreductase 51 kDa subunit; mitochondrial NADH dehydrogenase ubiquinone flavoprotein 1; mitochondrial NADH:ubiquinone oxidoreductase 51 kda subunit; UQOR1; CI-51K; CI51KD; FLJ59059;
Gene ID	4723
mRNA Refseq	NM_007103
Protein Refseq	NP_009034
MIM	161015
UniProt ID	P49821
SDS-PAGE	

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