Recombinant Human NDUFV2, His-tagged

Cat. No. NDUFV2-2313H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human NDUFV2 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
ProteinLength	240aa
Description	The NADH-ubiquinone oxidoreductase complex (complex I) of the mitochondrial respiratory chain catalyzes the transfer of electrons from NADH to ubiquinone, and consists of at least 43 subunits. The complex is located in the inner mitochondrial membrane. NDUFV2 is the 24 kDa subunit of complex I, and is involved in electron transfer. Mutations in this gene are implicated in Parkinson"s disease, bipolar disorder, schizophrenia, and have been found in one case of early onset hypertrophic cardiomyopathy and encephalopathy. A non-transcribed pseudogene of this locus is found on chromosome 19.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT
Molecular Mass	26.1 kDa
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSGAGGALF VHRDTPENNP DTPFDFTPEN YKRIEAIVKN YPEGHKAAAV LPVLDLAQRQ NGWLPISAMN KVAEVLQVPP

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	MRVYEVATFY TMYNRKPVGK YHIQVCTTTP CMLRNSDSIL EAIQKKLGIK VGETTPDKLF TLIEVECLGA CVNAPMVQIN DNYYEDLTAK DIEEIIDELK AGKIPKPGPR SGRFSCEPAG GLTSLTEPPK GPGFGVQAGL
Purity	>90% by SDS - PAGE
Applications	SDS-PAGE
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
Concentration	1 mg/ml

GENE INFORMATION

Gene Name	NDUFV2 NADH dehydrogenase (ubiquinone) flavoprotein 2, 24kDa [Homo sapiens]
Official Symbol	NDUFV2
Synonyms	NDUFV2; NADH dehydrogenase (ubiquinone) flavoprotein 2, 24kDa; NADH dehydrogenase (ubiquinone) flavoprotein 2 (24kD); NADH dehydrogenase [ubiquinone] flavoprotein 2, mitochondrial; CI 24k; complex I 24kDa subunit; NADH dehydrogenase [ubiquinone] flavoprotein 2; mitochondrial; NADH-ubiquinone oxidoreductase 24 kDa subunit; NADH-ubiquinone oxidoreductase flavoprotein 2; complex I, mitochondrial respitory chain, 24 kD subunit; NADH dehydrogenase ubiquinone flavoprotein 2, mitochondrial; nuclear-encoded mitochondrial NADH-ubiquinone reductase 24Kd subunit; CI-24k;
Gene ID	4729
mRNA Refseq	NM_021074

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Protein Refseq	NP_066552
MIM	600532
UniProt ID	P19404
Chromosome Location	18p11.22
Pathway	Alzheimers disease, organism-specific biosystem; Alzheimers disease, conserved biosystem; Electron Transport Chain, organism-specific biosystem; Huntingtons disease, organism-specific biosystem; Huntingtons disease, conserved biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem;
Function	2 iron, 2 sulfur cluster binding; NAD binding; NADH dehydrogenase (ubiquinone) activity; NADH dehydrogenase (ubiquinone) activity; NADH dehydrogenase activity; electron carrier activity; metal ion binding; oxidoreductase activity;

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