Recombinant Mouse Ndufv2 Protein, Myc/DDK-tagged

Cat. No. Ndufv2-4349M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length NADH:ubiquinone oxidoreductase core subunit V2 (Ndufv2), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	This gene encodes a subunit of the NADH-ubiquinone oxidoreductase (complex I) enzyme, which is a large, multimeric protein. It is the first enzyme complex in the mitochondrial electron transport chain and catalyzes the transfer of electrons from NADH to the electron acceptor ubiquinone. The proton gradient created by electron transfer drives the conversion of ADP to ATP. This gene is a core subunit and is conserved in prokaryotes and eukaryotes. The bovine ortholog of this protein has been characterized and is reported to contain an iron-sulfur cluster, which may be involved in electron transfer. In humans 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 pseudogene of this gene is located on chromosome 3. Alternative splicing results in multiple transcript variants encoding different isoforms.
Molecular Mass	27.3 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining

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Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 μg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Ndufv2 NADH:ubiquinone oxidoreductase core subunit V2 [Mus musculus (house mouse)]
Official Symbol	Ndufv2
Synonyms	NDUFV2; NADH dehydrogenase (ubiquinone) flavoprotein 2; NADH dehydrogenase [ubiquinone] flavoprotein 2, mitochondrial; NADH-ubiquinone oxidoreductase 24 kDa subunit; 2900010C23Rik
Gene ID	72900
mRNA Refseq	NM_028388
Protein Refseq	NP_082664
UniProt ID	Q9D6J6

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