

Recombinant Mouse Ndufa2 Protein, Myc/DDK-tagged

Cat. No. Ndufa2-4329M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length NADH:ubiquinone oxidoreductase subunit A2 (Ndufa2), 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. The human ortholog of this gene has been characterized, and its structure and redox potential is reported to be similar to that of thioredoxins. It may be involved in regulating complex I activity or assembly via assistance in redox processes. In humans, mutations in this gene are associated with Leigh syndrome, an early-onset progressive neurodegenerative disorder. A pseudogene of this gene is located on chromosome 5.
Molecular Mass	10.9 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

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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	Ndufa2 NADH:ubiquinone oxidoreductase subunit A2 [Mus musculus (house mouse)]
Official Symbol	Ndufa2
Synonyms	NDUFA2; NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 2; NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 2; C1-B8; complex I-B8; NADH-ubiquinone oxidoreductase B8 subunit; B8; C1-B8; AV000592
Gene ID	17991
mRNA Refseq	NM_010885
Protein Refseq	NP_035015
UniProt ID	Q9CQ75

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