

## Recombinant Human NDUFA12 Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** NDUFA12-699H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | NDUFA12 MS Standard C13 and N15-labeled recombinant protein (NP_061326) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.                                                                                                                                                                                                                                                                                                                                                     |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Description</b>      | This gene encodes a protein which is part of mitochondrial complex 1, part of the oxidative phosphorylation system in mitochondria. Complex 1 transfers electrons to ubiquinone from NADH which establishes a proton gradient for the generation of ATP. Mutations in this gene are associated with Leigh syndrome due to mitochondrial complex 1 deficiency. Pseudogenes of this gene are located on chromosomes 5 and 13. Alternative splicing results in multiple transcript variants. |
| <b>Molecular Mass</b>   | 17.1 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>AA Sequence</b>      | MELVQVLKRGLQQITGHGGLRGYLRVFFRTNDAKVGTLVGEDKYGNKYYEDNKQFF<br>GRHRWVVYTTEMNGKNTFWDVDGSMVPPEWHRWLHSMTDDPPTTKPLAARKFIW<br>TNHKFNVTGTPEQYVPYSTTRKKIQEWIPPSTPYKTRTRPLEQKLISEEDLAANDILD<br>YKDDDDKV                                                                                                                                                                                                                                                                                              |
| <b>Purity</b>           | > 80% as determined by SDS-PAGE and Coomassie blue staining                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Stability</b>        | Stable for 3 months from receipt of products under proper storage and handling                                                                                                                                                                                                                                                                                                                                                                                                            |

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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** [NDUFA12 NADH:ubiquinone oxidoreductase subunit A12 \[ Homo sapiens \(human\) \]](#)

**Official Symbol** [NDUFA12](#)

**Synonyms** NDUFA12; B17.2; DAP13; NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 12; NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 12; CI-B17.2; complex I B17.2 subunit; 13 kDa differentiation-associated protein; NADH-ubiquinone oxidoreductase subunit B17.2; EC 1.6.5.3; EC 1.6.99.3

**Gene ID** [55967](#)

**mRNA Refseq** [NM\\_018838](#)

**Protein Refseq** [NP\\_061326](#)

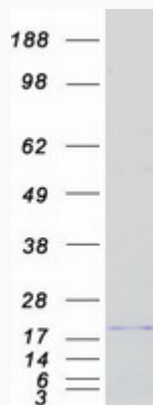
**MIM** [614530](#)

**UniProt ID** [Q9UI09](#)

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**SDS-PAGE**

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