

## Product datasheet for **TP305506**

### NDUFS1 (NM\_005006) Human Recombinant Protein

#### Product data:

|                                       |   |
|---------------------------------------|---|
| Product Type:                         | Recombinant Proteins  |
| Description:                          | Recombinant protein of human NADH dehydrogenase (ubiquinone) Fe-S protein 1, 75kDa (NADH-coenzyme Q reductase) (NDUFS1), nuclear gene encoding mitochondrial protein, 20 µg |
| Species:                              | Human   |
| Expression Host:                      | HEK293T   |
| Expression cDNA Clone or AA Sequence: | >RC205506 representing NM_005006<br>Red=Cloning site Green=Tags(s)  |

MLRIPVRKALVGLSKSPKGCVRRTATAASNIEVFVDGQSVMEVPGTTVLQACEKVGMIIPRFCYHERLS  
VAGNCRMCLVEIEKAPKVAACAMPVMKGWNILTNSEKSKKAREGVMEFLLANHPLDPCICDQGGCEDLQ  
DQSMFMFGNDRSRFLEGKRAVEDKNIGPLVKTIMTRCIQCTRCIRFASEIAGVDDLGTTGRGNDMQVGTYI  
EKMFMSSELSGNIIDICPVGALTSKPYAFTAQPWETRKTESIDVMDAVGNSIVVSTRTGEVMRILPRMHED  
INEEWISDKTRFAYDGLKRQRLTEPMVRNEKGLLTYTSWEDALSRVAGMLQSFQGDVAAIAGGLVDAAEA  
LVALKDLLNRVDSDTLCTEEVFPTAGAGTDLRSNYLLNTTIAGVEEADVLLVGTNPRFEAPLFNARIRK  
SWLHNDLKVALLIGSPVDLTYTYDHLGDSPIKLDIASGSHPFQVLKEAKKPMVVLGSSALQRNDGAIL  
AAVSSIAQKIRMTSGVTGDWKMNIHRIASQVAALDLGYPGVEAIRKNPPKVLFLGADGGCITRQDL  
PKDCFIYQGHGVDVGAIVLPGAAYTEKSATYVNTGRAQQTAVVTPPGLAREDWKIIRALSEIA  
GMTLPYDTLDQVRNRLEEVSPNLVRYDDIEGANYFQQANELSKLVNQQLLADPLVPPQLTIKDFYMTDSI  
SRASQTMACVKAVTEGAQAVEEPSIC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

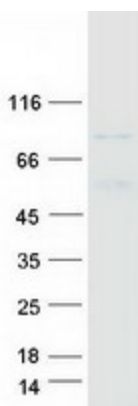
|                |  |
|----------------|--|
| Tag:           | C-Myc/DDK  |
| Predicted MW:  | 76.9 kDa   |
| Concentration: | >0.05 µg/µL as determined by microplate BCA method   |
| Purity:        | > 80% as determined by SDS-PAGE and Coomassie blue staining  |
| Buffer:        | 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol   |
| Preparation:   | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.                                     |
| Note:          | For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process. |



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|                          |  |
|--------------------------|--|
| <b>Storage:</b>          | Store at -80°C.  |
| <b>Stability:</b>        | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.  |
| <b>RefSeq:</b>           | <a href="#">NP_004997</a>  |
| <b>Locus ID:</b>         | 4719   |
| <b>UniProt ID:</b>       | <a href="#">P28331</a> , <a href="#">E5KRK5</a>  |
| <b>RefSeq Size:</b>      | 3417   |
| <b>Cytogenetics:</b>     | 2q33.3   |
| <b>RefSeq ORF:</b>       | 2181   |
| <b>Synonyms:</b>         | CI-75k; CI-75Kd; MC1DN5; PRO1304   |
| <b>Summary:</b>          | The protein encoded by this gene belongs to the complex I 75 kDa subunit family. Mammalian complex I is composed of 45 different subunits. It locates at the mitochondrial inner membrane. This protein has NADH dehydrogenase activity and oxidoreductase activity. It transfers electrons from NADH to the respiratory chain. The immediate electron acceptor for the enzyme is believed to be ubiquinone. This protein is the largest subunit of complex I and it is a component of the iron-sulfur (IP) fragment of the enzyme. It may form part of the active site crevice where NADH is oxidized. Mutations in this gene are associated with complex I deficiency. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2011] |
| <b>Protein Pathways:</b> | Alzheimer's disease, Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease  |

### Product images:



Coomassie blue staining of purified NDUFS1 protein (Cat# TP305506). The protein was produced from HEK293T cells transfected with NDUFS1 cDNA clone (Cat# [RC205506]) using MegaTran 2.0 (Cat# [TT210002]).