

Product datasheet for **TP305506M**

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, 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC205506 representing NM_005006 Red=Cloning site Green=Tags(s)

MLRIPVRKALVGLSKSPKGCVRRTATAASNLIIEVFVDGQSVMEVPGTTVLQACEKVGMIIPRFCYHERLS
VAGNCRMCLVEIEKAPKVAACAMPVMKGWNILTNSEKSKKAREGVMEFLLANHPLDPCICDQGGCEDLQ
DQSMFMFGNDRSRFLEGKRAVEDKNIGPLVKTIMTRCIQCTRCIRFASEIAGVDDLGTTGRGNDMQVGTYI
EKMFMSSELSGNIIDICPVGALTSKPYAFTAQPWETRKTESIDVMDAVGNSIVVSTRTGEVMRILPRMHED
INEEWISDKTRFAYDGLKRQRLTEPMVRNEKGLLTYTSWEDALSRVAGMLQSFQGDVAAIAGGLVDAAEA
LVALKDLLNRVDSDTLCTEEVFPTAGAGTDLRSNYLLNTTIAGVEEADVLLVGTNPRFEAPLFNARIRK
SWLHNDLKVALLIGSPVDLTYTYDHLGDSPIKLDIASGSHPFQVLKEAKKPMVVLGSSALQRNDGAIL
AAVSSIAQKIRMTSGVTGDWKMNIHRIASQVAALDLGYPGVEAIRKNPPKVLFLGADGGCITRQDL
PKDCFIYQGHGVDGAPIADVILPGAAYTEKSATYVNTGRAQQTAVVTPPGLAREDWKIIRALSEIA
GMTLPYDITLDQVRNRLEEVSPNLVRYDDIEGANYFQQANELSKLVNQQLLADPLVPPQLTIKDFYMTDSI
SRASQTMACVKAVTEGAQAVEEPSIC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

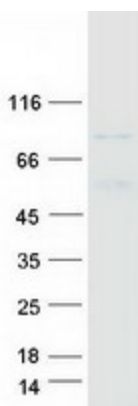
Tag:	C-Myc/DDK
Predicted MW:	76.9 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity 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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Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_004997
Locus ID:	4719
UniProt ID:	P28331 , E5KRK5
RefSeq Size:	3417
Cytogenetics:	2q33.3
RefSeq ORF:	2181
Synonyms:	CI-75k; CI-75Kd; MC1DN5; PRO1304
Summary:	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]
Protein Pathways:	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]).