



# Recombinant Rat NADH-ubiquinone oxidoreductase 75 kDa subunit, mitochondrial (Ndufs1)

<b>Product Code</b>	CSB-EP724120RA-B
<b>Abbreviation</b>	Ndufs1
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	Q66HF1
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Rattus norvegicus (Rat)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	TGTAASN LIEVFVDGQS VMVEPGTTVL QACEKVGMI PRFCYHERLS VAGNCRMCLV EIEKAPKVA ACAMPVMKGW NILTNSEKSK KAREGVMEFL LANHPLDCPI CDQGGECDLQ DQSMMFGSDR SRFLEGKRAV EDKNIGPLVK TIMTRCIQCT RCIRFAEIA GVDDL GTTGR GNDMQVGTYI EKMFMSELG NIIDICPGA LTKPYAFTA RPWETRKTES IDVMDAVGSN IVVSTRTGEV MRILPRMHED INEEWISDKT RFAYDGLKRQ RLTEPMVRNE KGLLTYTSWE DALSRVAGML QSFEGKAVAA IAGGLVDAEA LVALKDLLNK VSDTLCTEE IFPNEGAGTD LRSNYLLNTT IAGVEEADV LLVGTNPRFE APLFNARIRK SWLHNDLKVA LIGSPVDLTY RYDHLGDSPK ILQDIASGNH EFSKVLNAAK KPMVVLGSSA LQRDDGAIL AAVSSIAQKI RVASGAAAEW KVMNILHRIA SQVAALDLGY KPGVEAIRKN PPKLLFLLGA DGGCITRQDL PKDCFIVYQG HHGDVGAPIA DVILPGAAYT EKSATYVNT EGRAQTKVAV TPPGLAREDW KIIRALSEIA GITLPYDTLD QVRNRLGEVS PNLVRYDDVE EANYFQQASE LAKLVDQEFL ADPLVPPQLT IKDFYMTDSI SRASQTMKAC VKAVTEGAQA VEEPSIC
<b>Source</b>	E.coli
<b>Target Names</b>	Ndufs1
<b>Protein Names</b>	Recommended name: NADH-ubiquinone oxidoreductase 75 kDa subunit, mitochondrial EC= 1.6.5.3 EC= 1.6.99.3
<b>Expression Region</b>	24-727
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full Length of Mature Protein
<b>Target Details</b>	This protein 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.

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**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

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**Shelf Life**

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