



# Recombinant Rat NADH dehydrogenase [ubiquinone] iron-sulfur protein 4, mitochondrial (Ndufs4)

<b>Product Code</b>	CSB-MP736455RA
<b>Abbreviation</b>	Ndufs4
<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>	Q5XIF3
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Rattus norvegicus (Rat)
<b>Purity</b>	≥85% (SDS-PAGE)
<b>Sequence</b>	ADGQTRDT QLITVDEKLD VTPLTGVPEE HIKTRKVRIF VPARNNMQSG VNNTKKWKME FDTREWRWENP LMGWASTADP LSNMVLTFSA KEDAVAFSAEK HGWSYDVEGR KVPKPKSKSY GANFSWNKRT RVSTK
<b>Source</b>	Mammalian cell
<b>Target Names</b>	Ndufs4
<b>Protein Names</b>	Recommended name: NADH dehydrogenase [ubiquinone] iron-sulfur protein 4, mitochondrial Alternative name(s): Complex I-18 kDa Short name= CI-18 kDa NADH-ubiquinone oxidoreductase 18 kDa subunit
<b>Expression Region</b>	43-175
<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 gene encodes an accessory subunit of the mitochondrial membrane respiratory chain NADH dehydrogenase (Complex I), or NADH:ubiquinone oxidoreductase, the first multi-subunit enzyme complex of the mitochondrial respiratory chain. Complex I plays a vital role in cellular ATP production, the primary source of energy for many crucial processes in living cells. It removes electrons from NADH and passes them by a series of different protein-coupled redox centers to the electron acceptor ubiquinone. In well-coupled mitochondria, the electron flux leads to ATP generation via the building of a proton gradient across the inner membrane. Complex I is composed of at least 41 subunits, of which 7 are encoded by the mitochondrial genome and the remainder by nuclear genes.

**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.

**Shelf Life**

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