



# Recombinant Bovine NADH dehydrogenase [ubiquinone] iron-sulfur protein 4, mitochondrial (NDUFS4)

<b>Product Code</b>	CSB-EP015663BO
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	Q02375
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Bos taurus (Bovine)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	AQDQTRDT QLITVDEKLD ITTITGVPEE HIKTRKARIF VPARNNMQSG VNNTKKWKME FDTRERWENP LMGWASTADP LSNLVLTFST KEDAVAF AEK NGWSYDVEER KVPKPKSKSY GANFSWNKRT RVSTK
<b>Source</b>	E.coli
<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 Complex I-AQDQ Short name= CI-AQDQ NADH-ubiquinone oxidoreductase 18 kDa subun
<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.
<b>Reconstitution</b>	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

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.