

# Recombinant human NDUFS4 protein

Catalog Number: ATGP0328

## PRODUCT INFORMATION

**Expression system**

E.coli

**Domain**

43-175aa

**UniProt No.**

O43181

**NCBI Accession No.**

NP\_002486

**Alternative Names**

AQDQ, CI AQDQ, CI-18, Complex I 18kDa subunit, Complex I AQDQ, Mitochondrial respiratory chain complex I (18 KD subunit), NADH dehydrogenase, NADH dehydrogenase (ubiquinone) Fe-S protein 4, NADH dehydrogenase (ubiquinone) Fe-S protein 4 CI 18 kDa, NADH ubiquinone oxidoreductase 18 kDa subunit, NADH:ubiquinone oxidoreductase subunit S4

## PRODUCT SPECIFICATION

**Molecular Weight**

15.5 kDa (134aa) confirmed by MALDI-TOF

**Concentration**

0.5mg/ml (determined by Bradford assay)

**Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 30% glycerol

**Purity**

> 90% by SDS-PAGE

**Tag**

Non-Tagged

**Application**

SDS-PAGE

**Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

**Description**

NDuFS4, also known as NADH dehydrogenase (ubiquinone) Fe-S protein 4, is an accessory subunit of the mitochondrial membrane respiratory chain NADH dehydrogenase (Complex I), the first multi-subunit enzyme complex of the mitochondrial respiratory chain. Complex I plays a vital role in cellular ATP production, the

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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. Recombinant human NDUFS4 protein was expressed in E. coli and purified by using conventional chromatography.

## Amino acid Sequence

MAQDQTQDTQ LITVDEKLDI TTLTGVPEEH IKTRKVRIFV PARNNMQSGV NNTKKWKMEF DTRERWENPL MGWASTADPL  
SNMVLTFSTK EDAVSFAEKN GWSYDIEERK VPKPKSKSYG ANFSWNKRTR VSTK

## General References

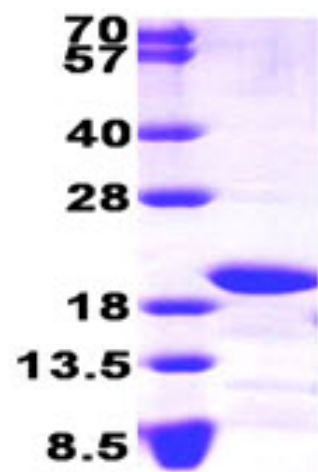
Choi WS., et al. (2008), Proc Natl Acad Sci U S A. 105(39):15136-41.

De Rasmo D., et al. (2008). Cell Signal. 20(5):989-97.

## DATA

### SDS-PAGE

(KDa)



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.