

# Recombinant human NDUFS6 protein

Catalog Number: ATGP2206

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

28-124aa

### UniProt No.

O75380

### NCBI Accession No.

NP\_004544

### Alternative Names

NADH dehydrogenase [ubiquinone] iron-sulfur protein 6, CI-13Ka, CI-13kD-A, CI13KDA, NADH:ubiquinone oxidoreductase subunit S6, NADH-ubiquinone oxidoreductase 13 kDa-A subunit, NADH dehydrogenase (ubiquinone) Fe-S protein 6, Complex I 13kDa subunit A, Complex I-13kD-A

## PRODUCT SPECIFICATION

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### Molecular Weight

13.2 kDa (120aa) confirmed by MALDI-TOF

### Concentration

0.25mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 30% glycerol, 1mM DTT

### Purity

> 90% by SDS-PAGE

### Tag

His-Tag

### 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

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### Description

NDuFS6 is a subunit of the NADH:ubiquinone oxidoreductase (complex I), which is the first enzyme complex in the electron transport chain of mitochondria. This complex functions in the transfer of electrons from NADH to the respiratory chain. The subunit is one of seven subunits in the iron-sulfur protein fraction. Mutations cause mitochondrial complex I deficiency, a disease that causes a wide variety of clinical disorders, including neonatal

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disease and adult-onset neurodegenerative disorders. Recombinant human NDuFS6 protein, fused to His-tag at N-terminus, was expressed in *E. coli* and purified by using conventional chromatography techniques

## Amino acid Sequence

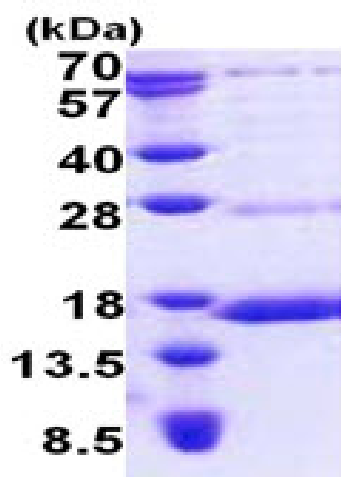
MGSSHHHHHHH SGLVPRGSH MGSFGVRVSP TGEKVTHTGQ VYDDKDYRRI RFVGRQKEVN ENFAIDLIAE QPVSEVETRV  
IACDGGGGAL GHPKVYINLD KETKTGTCGY CGLQFRQHHH

## General References

Hendrickson, S.L., et al. (2010) PLoS ONE 5 (9), E12862  
Saito, A., et al. (2009) J. Hum. Genet. 54 (6), 317-323

## DATA

### SDS-PAGE



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

15% SDS-PAGE (3ug)