

# Recombinant human NDUFS3 protein

Catalog Number: ATGP1785

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

37-264aa

### UniProt No.

O75489

### NCBI Accession No.

NP\_004542

### Alternative Names

NADH dehydrogenase [ubiquinone] iron-sulfur protein 3, CI-30, NADH:ubiquinone oxidoreductase core subunit S3, Complex I-30kD, CI-30kD, NADH-ubiquinone oxidoreductase 30 kDa subunit, NADH dehydrogenase (ubiquinone) Fe-S protein 3 30kDa, NADH-coenzyme Q reductase

## PRODUCT SPECIFICATION

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### Molecular Weight

28.7 kDa (249aa) 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, 10% glycerol, 1mM DTT

### Purity

> 85% 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

NADH dehydrogenase [ubiquinone] iron-sulfur protein 3, also known as NDUFS3, belongs to the complex I 30 kDa subunit family. The multisubunit NADH:ubiquinone oxidoreductase (complex I) is the first enzyme complex in the electron transport chain of mitochondria. The iron-sulfur protein (IP) fraction of complex I is made up of 7 subunits. Recombinant human NDUFS3 protein, fused to His-tag at N-terminus, was expressed in E. coli and

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purified by using conventional chromatography techniques.

## Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH M>ESAGADTRP TVRPRNDVAH KQLSAFGYEV AEILPKYVQQ VQVSCFNELE  
VCIHPDGVIP VLTFLRDHTN AQFKSLVDLT AVDVPTRQNR FEIVYNLLSL RFNSRIRVKT YDELTPIES AVSVFKAANW  
YEREIWDWFG VFFANHPDLR RILTDYGFEG HPFRKDFPLS GYVELRYDDE VKRVVAEPVE LAQEFRKFDL NSPWEAFPVY  
RQPPESLKLE AGDKKPKDAK

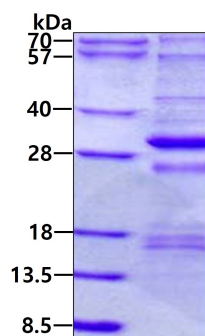
## General References

Murray J., et al. (2003) J. Biol. Chem. 278:13619-13622

Saada A., et al. (2009) Am. J. Hum. Genet. 84:718-727

## DATA

### SDS-PAGE



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