

# Recombinant human NDuFS5 protein

Catalog Number: ATGP2556

## PRODUCT INFORMATION

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**Expression system**

E.coli

**Domain**

1-106aa

**UniProt No.**

O43920

**NCBI Accession No.**

NP\_001171908

**Alternative Names**

NADH:ubiquinone oxidoreductase subunit S5, NADH dehydrogenase [ubiquinone] iron-sulfur protein 5, NADH dehydrogenase (ubiquinone) Fe-S protein 5 15kDa, NADH-coenzyme Q reductase, Complex I-15 kDa, CI-15 kDa, NADH-ubiquinone oxidoreductase 15 kDa subunit

## PRODUCT SPECIFICATION

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**Molecular Weight**

14.9 kDa (129aa)

**Concentration**

1mg/ml (determined by Bradford assay)

**Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol 0.4M urea

**Purity**

&gt; 85% by SDS-PAGE

**Tag**

His-Tag

**Application**

SDS-PAGE, Denatured

**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**

NDuFS5 is a member of the NADH dehydrogenase (ubiquinone) iron-sulfur protein family. This protein is a subunit of the NADH:ubiquinone oxidoreductase (complex I), the first enzyme complex in the electron transport chain located in the inner mitochondrial membrane. Recombinant human NDuFS5 protein, fused to His-tag at N-terminus, was expressed in E. coli.

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## Amino acid Sequence

MGSSHHHHHHH SSGLVPRGSH MGSMPFLDIQ KRFG LNIDRW LTIQSGEQPY KMAGRCHAFE KEWIECAHGI GYTRAEKECK  
IEYDDFVECL LRQKTMRRAG TIRKQRDKLI KEGKYTPPPH HIGKGEPRP

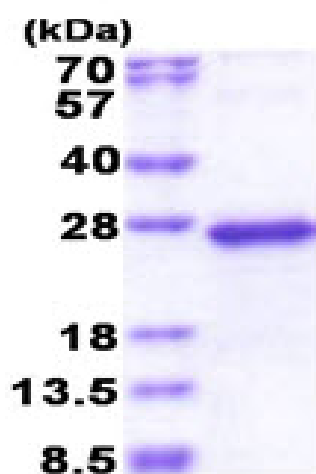
## General References

Loeffen J. et al. (1999) J Inherit Metab Dis. 22:19-28.

Wang SY. et al. (2009) J Dig Dis.. 10:99-106.

## DATA

### SDS-PAGE



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

15% SDS-PAGE (3ug)