

Recombinant human NDUFAF1 protein

Catalog Number: ATGP1775

PRODUCT INFORMATION

Expression system

E.coli

Domain

25-327aa

UniProt No.

Q9Y375

NCBI Accession No.

NP_057097

Alternative Names

NADH:ubiquinone oxidoreductase complex assembly factor 1, Complex I intermediate-associated protein 30 mitochondrial, NADH dehydrogenase [ubiquinone] 1 alpha subcomplex assembly factor 1, CIA30, CGI-65

PRODUCT SPECIFICATION

Molecular Weight

37 kDa (326aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 40% glycerol, 1mM DTT, 2mM EDTA

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

Description

NDuFAF1 is a complex I assembly factor protein. Complex I (NADH-ubiquinone oxidoreductase) catalyzes the transfer of electrons from NADH to ubiquinone (coenzyme Q) in the first step of the mitochondrial respiratory chain, resulting in the translocation of protons across the inner mitochondrial membrane. The protein is required for assembly of complex I, and mutations in this protein are a cause of mitochondrial complex I deficiency. Recombinant human NDUFAF1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by

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using conventional chromatography techniques.

Amino acid Sequence

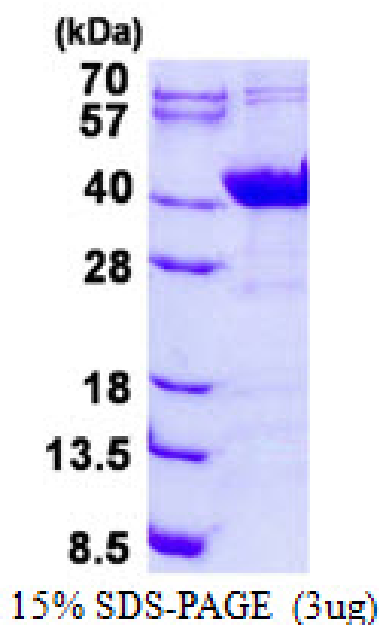
MGSSHHHHHH SGLVPRGSH MGSYPFLGIR FAEYSSSLQK PVASPGKASS QRKTEGDLQG DHQKEVALDI TSSEKPDVSD
FDKAIRDEAI YHFRLLKDEI VDHWRGPEGH PLHEVLLEQA KVVWQFRGKE DLDKWTVTSD KTIGGRSEVF LKMGKNNQSA
LLYGTLSSEA PQDGESTRSG YCAMISRIPR GAFERKMSYD WSQFNTLYLR VRGDGRPWMV NIKEDTDFEQ RTNQMYSYFM
FTRGGPYWQE VKIPFSKFFF SNRGRIRDVQ HELPLDKISS IGFTLADKVD GPFFLEIDFI GVFTDPAHTE EFAYENSPEL
NPRLFK

General References

Vogel RO., et al. (2005). FEBS J. 272(20):5317-26.
Janssen R., et al. (2002). Hum Genet. 110(3):264-70.

DATA

SDS-PAGE



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