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

using conventional chromatography techniques.

Amino acid Sequence

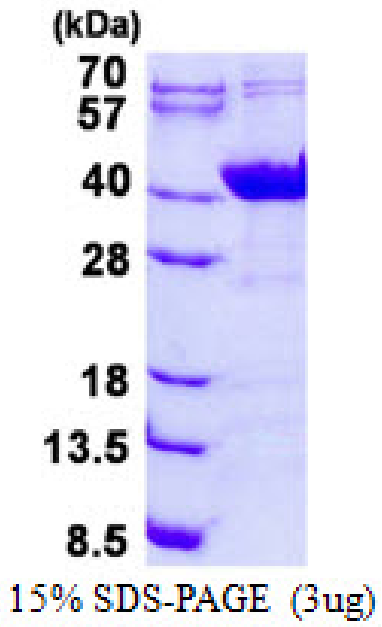
MGSSHHHHHH SSGLVPRGSH MGSYPFLGIR FAEYSSSLQK PVASPGKASS QRKTEGDLQG DHQKEVALDI TSSEEKPDVS FDKAIRDEAI YHFRLLKDEI VDHWRGPEGH PLHEVLLEQA KVVWQFRGKE DLDKWTVTSD KTIGGRSEVF LKMGKNNQSA LLYGTLSSEA PQDGESTRSG YCAMISRIPR GAFERKMSYD WSQFNTLYLR VRGDGRPWMV NIKEDTDFFQ RTNQMYSYFM FTRGGPYWQE VKIPFSKFFF SNRGRIRDVQ HELPLDKISS 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.