

Recombinant human Mimitin/NDUFAF2 protein

Catalog Number: ATGP1133

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-169aa

UniProt No.

Q8N183

NCBI Accession No.

NP_777549

Alternative Names

NADH dehydrogenase [ubiquinone] 1 alpha subcomplex assembly factor 2, Mimitin, MMTN, NDUFA12L, NADH:ubiquinone oxidoreductase complex assembly factor 2, B17.2-like, B17.2L, Myc-induced mitochondrial protein, NDUFA12-like protein

PRODUCT SPECIFICATION

Molecular Weight

22 kDa (189aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 20% glycerol, 200mM NaCl

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

Description

NDUFAF2, also known as Mimitin, belongs to the complex I NDUFA12 subunit family. NADH dehydrogenase is an enzyme located in the inner mitochondrial membrane that catalyzes the transfer of electrons from NADH to coenzyme Q (CoQ). It is the 'entry enzyme' of oxidative phosphorylation in the mitochondria. Mimitin protein acts as a molecular chaperone for mitochondrial complex I assembly. Recombinant human NDUFAF2 protein, fused to

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His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

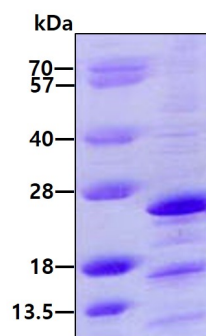
<MGSSHHHHHH SSGLVPRGSH> MGWSQDLFRA LWRSLREVK EHVGTDFGN KYYYIPQYKN WRGQTIREKR
IVEAANKKEV DYEAGDIPT EWEAWIRTRK TPPTMEEILK NEKHREEIKI KSQDFYEKEK LLSKETSEEL LPPPVQTQIK
GHASAPYFGK EEPVAPSST GKTFQPGSWM PRDGKSHNQ

General References

Tsuneoka M., et al (2005) J. Biol. Chem. 280:19977-19985
Ogilvie I., et al (2005) J. Clin. Invest. 115:2784-2792

DATA

SDS-PAGE



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