

Recombinant human NDUFV2 protein

Catalog Number: ATGP2313

PRODUCT INFORMATION

Expression system

E.coli

Domain

33-249aa

UniProt No.

P19404

NCBI Accession No.

NP_066552

Alternative Names

NADH dehydrogenase [ubiquinone] flavoprotein 2, CI-24k, NADH:ubiquinone oxidoreductase core subunit V2, Complex I 24kDa subunit

PRODUCT SPECIFICATION

Molecular Weight

26.1 kDa (240aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT

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

The NADH-ubiquinone oxidoreductase complex (complex I) of the mitochondrial respiratory chain catalyzes the transfer of electrons from NADH to ubiquinone, and consists of at least 43 subunits. The complex is located in the inner mitochondrial membrane. NDUFV2 is the 24 kDa subunit of complex I, and is involved in electron transfer. Mutations in this gene are implicated in Parkinson's disease, bipolar disorder, schizophrenia, and have been found in one case of early onset hypertrophic cardiomyopathy and encephalopathy. A non-transcribed

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pseudogene of this locus is found on chromosome 19. Recombinant human NDUFV2 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 MGS>GAGGALF VHRDTPENNP DTPFDFTPEN YKRIEIVKN YPEGHAAA
V LPVLDLAQRQ NGWLPISAMN KVAEVLQVPP MRVYEVAIFY TMYNRKPVGK YHIQVCTTTP CMLRNSDSIL EAIQKKLGIK
VGETTPDKLF TLIEVECLGA CVNAPMVQIN DNYIEDLTAK DIEEIIDELK AGKIPKPGPR SGRFSCEPAG GLTSLTEPPK
GPGFGVQAGL

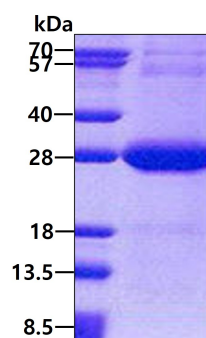
General References

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

Burkard T.R., et al. (2011) *BMC Syst. Biol.* 5:17-17

DATA

SDS-PAGE



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