

NDUFV2, 33-249aa, Human, His tag, E.coli

Cat.NO.: TP03134

3th Edition

Synonyms:NADH dehydrogenase [ubiquinone] flavoprotein 2, CI-24k

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 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.

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

Molecular Weight:26.1 kDa (240aa) confirmed by MALDI-TOF

Sequences:

MGSSHHHHHSSGLVPRGSHMGSGAGGALFVHRDTPENNPDTPFDFTPENYKRIEAIIVKNYPEGHKAAAVLPVLD
LAQRQNGWLPISAMNKVAEVLQVPPMRVYEVATFYTMYNRKPVGKYHIQVCTTTTPCMLRNSDSILEAIQKKLGIKVG
ETTPDKLFTLIEVECLGACVNAPMVQINDNYEDLTAKDIEEIIDELKAGKIPKPGPRSGRFSCPEAGGLTSLTEPPKG
PGFGVQAGL

Purity:> 95% by HPLC

Concentration:1 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.