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## Product Data Sheet

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Product Name: NDUFV2 Human  
 Cat. No.: GP21993  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	NADH dehydrogenase [ubiquinone] flavoprotein 2;CI-24k; NADH dehydrogenase [ubiquinone] flavoprotein 2; mitochondrial; NADH-ubiquinone oxidoreductase 24 kDa subunit; NDUFV2.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSGAGGALF VHRDTPENNP DTPFDFTPEN YKRIEAIKKN YPEGHKAHAV LPVLDLAQRQ NGWLPISAMN KVAEVLQVPP MRVYEVATFY TMYNRKPVGK YHIQVCTTTP CMLRNSDSL EAIQKKLGIK VGETTPDKLF TLIEVECLGA CVNAPMVQIN DNYEDLTAK DIEEIDELK AGKIPKPGPR SGRFSCEPAG GLTSLTEPPK GPGFGVQAGL.		
Formulation	NDUFV2 protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 10% glycerol and 1mM DTT.		

### Introduction

NADH Dehydrogenase Flavoprotein 2 (NDUFV2) is a 24 kDa Core subunit of the mitochondrial membrane respiratory chain NADH dehydrogenase (Complex I) which is a part of the minimal assembly required for catalysis. NDUFV2 is also involved in electron transfer. Mutations in NDUFV2 are implicated in Parkinson's disease, bipolar disorder, schizophrenia, and have been discovered in one case of early onset hypertrophic cardiomyopathy and encephalopathy.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

NDUFV2 Human Recombinant produced in E.Coli is a single, non-glycosylated

**Caution: Product has not been fully validated for medical applications. For research use only.**

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polypeptide chain containing 240 amino acids (33-249 a.a) and having a molecular mass of 26.1kDa. NDUFV2 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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