Recombinant Human NADH dehydrogenase (ubiquinone) Fe-S protein 6, 13kDa (NADH-coenzyme Q reductase), His-tagged

Cat. No. NDUFS6-252H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	NDUFS6, 28-124aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	28-124 a.a.
Description	NDUFS6 is a subunit of the NADH:ubiquinone oxidoreductase (complex I), which is the first enzyme complex in the electron transport chain of mitochondria. This complex functions in the transfer of electrons from NADH to the respiratory chain. The subunit is one of seven subunits in the iron-sulfur protein fraction. Mutations cause mitochondrial complex I deficiency, a disease that causes a wide variety of clinical disorders, including neonatal disease and adult-onset neurodegenerative disorders. Recombinant human NDUFS6 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, 30% glycerol, 1mM DTT
Molecular Mass	13.2kDa (120aa), confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSFGVRVSP TGEKVTHTGQ VYDDKDYRRI RFVGRQKEVN ENFAIDLIAE QPVSEVETRV IACDGGGGAL GHPKVYINLD

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	KETKTGTCGY CGLQFRQHHH
Purity	>90% by SDS - PAGE
Storage	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.
Concentration	0.25 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name	NDUFS6 NADH dehydrogenase (ubiquinone) Fe-S protein 6, 13kDa (NADH-coenzyme Q reductase) [Homo sapiens]
Official Symbol	NDUFS6
Synonyms	NDUFS6; NADH dehydrogenase (ubiquinone) Fe-S protein 6, 13kDa (NADH-coenzyme Q reductase); NADH dehydrogenase (ubiquinone) Fe S protein 6 (13kD) (NADH coenzyme Q reductase); NADH dehydrogenase [ubiquinone] iron-sulfur protein 6, mitochondrial; CI 13kA; complex I 13kDa subunit A; NADH dehydrogenase [ubiquinone] iron sulfur protein 6; mitochondrial; NADH:ubiquinone oxidoreductase NDUFS6 subunit; NADH-ubiquinone oxidoreductase 13 kDa-A subunit; complex I, mitochondrial respiratory chain, 13-kD subunit; CI-13kA; CI13KDA; CI-13kD-A;
Gene ID	4726
mRNA Refseq	NM_004553
Protein Refseq	NP_004544
MIM	603848

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UniProt ID	O75380
Chromosome Location	5p15.33
Pathway	Alzheimers disease, organism-specific biosystem; Alzheimers disease, conserved biosystem; Electron Transport Chain, organism-specific biosystem; Huntingtons disease, organism-specific biosystem; Huntingtons disease, conserved biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem;
Function	NADH dehydrogenase (ubiquinone) activity; electron carrier activity;

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