

Recombinant Human NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 2, 8kDa, His-tagged

Cat. No. NDUFA2-7202H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human NDUFA2 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques. MW: 13.3 kDa.
Species	Human
Source	E.coli
ProteinLength	1-99aa
Description	NDUFA2 is a subunit of the hydrophobic protein fraction of the NADH:ubiquinone oxidoreductase (complex 1), the first enzyme complex in the electron transport chain located in the inner mitochondrial membrane, and may be involved in regulating complex I activity or its assembly via assistance in redox. Mutations in this protein are associated with Leigh syndrome, an early-onset progressive neurodegenerative disorder.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT
Molecular Mass	13.3 kDa (122aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMAAAAAS RGVGAKLGLR EIRIHL CQRS PGSQGV RDFI EKRYVELKKA NPDLPILIRE CSDVQPKLWA RYAFGQETNV

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	PLNNFSADQV TRALENVLSG KA
Purity	>95% by SDS - PAGE
Applications	SDS-PAGE
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.
Concentration	1 mg/ml (determined by Bradford assay)
GENE INFORMATION	
Gene Name	NDUFA2 NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 2, 8kDa [Homo sapiens]
Official Symbol	NDUFA2
Synonyms	NDUFA2; NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 2, 8kDa; NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 2 (8kD, B8); NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 2; B8; complex I B8 subunit; NADH-ubiquinone oxidoreductase subunit CI-B8; CD14; CIB8;
Gene ID	4695
mRNA Refseq	NM_001185012
Protein Refseq	NP_001171941
MIM	602137

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UniProt ID	O43678
Chromosome Location	5q31.2
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;

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