

Recombinant Human NADH Dehydrogenase (Ubiquinone) 1 Alpha Subcomplex, 5, 13kDa, His-tagged

Cat. No. NDUFA5-7194H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human NDUFA5 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques. MW: 15.8 kDa.
Species	Human
Source	E.coli
ProteinLength	1-116aa
Description	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 5, also known as NDUFA5, belongs to the complex I NDUFA5 subunit family. The human NDUFA5 gene codes for the B13 subunit of complex I of the respiratory chain, which transfers electrons from NADH to ubiquinone. The high degree of conservation of NDUFA5 extending to plants and fungi indicates its functional significance in the enzyme complex. The protein localizes to the inner mitochondrial membrane as part of the 7 component-containing, water soluble "iron-sulfur protein" (IP) fraction of complex I, although its specific role is unknown. It is assumed to undergo post-translational removal of the initiator methionine and N-acetylation of the next amino acid.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT.
Molecular Mass	15.8 kDa (139aa) confirmed by MALDI-TOF

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AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMAGVLKK TTGLVGLAVC NTPHERLRIL YTKILDVLEE IPKNAAYRKY TEQITNEKLA MVKAEPDVKK LEDQLQGGQL EEVILQAEHE LNLARKMREW KLWEPLVEEP PADQWKWPI
Purity	>90% 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	NDUFA5 NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 5, 13kDa [Homo sapiens]
Official Symbol	NDUFA5
Synonyms	NDUFA5; NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 5, 13kDa; NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 5 (13kD, B13); NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 5; B13; CI 13kB; CI 13KD B; complex I 13kDa subunit B; NADH ubiquinone oxidoreductase 13 kDa B subunit; NUFM; type I dehydrogenase; ubiquinone reductase; UQOR13; Complex I-13KD-B; complex I subunit B13; NADH-ubiquinone oxidoreductase 13 kDa-B subunit; CI-13kB; CI-13KD-B; FLJ12147; DKFZp781K1356;
Gene ID	4698
mRNA Refseq	NM_005000

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Protein Refseq	NP_004991
MIM	601677
UniProt ID	Q16718
Chromosome Location	7q31.33
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; oxidoreductase activity, acting on NADH or NADPH;

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