

Recombinant Human NADH Dehydrogenase (Ubiquinone) Complex I, Assembly Factor 1, His-tagged

Cat. No. NDUFAF1-7207H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human NDUFAF1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques. MW: 37 kDa.
Species	Human
Source	E.coli
ProteinLength	25-327aa
Description	NDUFAF1 is a complex I assembly factor protein. Complex I (NADH-ubiquinone oxidoreductase) catalyzes the transfer of electrons from NADH to ubiquinone (coenzyme Q) in the first step of the mitochondrial respiratory chain, resulting in the translocation of protons across the inner mitochondrial membrane. The protein is required for assembly of complex I, and mutations in this protein are a cause of mitochondrial complex I deficiency.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 40% glycerol, 1mM DTT, 2mM EDTA.
Molecular Mass	37 kDa (326aa), confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSYPFLGIR FAEYSSSLQK PVASPGKASS QRKTEGDLQG DHQKEVALDI TSSEKPDVS FDKAIRDEAI YHFRLLKDEI

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

VDHWRGPEGH PLHEVLLEQA KVVWQFRGKE DLDKWTVTSD KTIGGRSEVF
 LKMKGNNQSA LLYGTLSSSEA PQDGESTRSG YCAMISRIPR GAFERKMSYD
 WSQFNTLYLR VRGDGRPWMV NIKEDTDFQ RTNQMYSYFM FTRGGPYWQE
 VKIPFSKFFF SNRGRIRDVQ HELPLDKISS IGFTLADKVD GPFFLEIDFI
 GVFTDPAHTE EFAYENSPEL NPRLFK

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 0.5 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name [NDUFAF1 NADH dehydrogenase \(ubiquinone\) 1 alpha subcomplex, assembly factor 1 \[Homo sapiens \]](#)

Official Symbol NDUFAF1

Synonyms NDUFAF1; NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, assembly factor 1; complex I intermediate-associated protein 30, mitochondrial; CGI 65; CIA30; NADH-ubiquinone oxidoreductase 1 alpha subcomplex, assembly factor 1; CGI65; CGI-65;

Gene ID [51103](#)

mRNA Refseq [NM_016013](#)

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Protein Refseq	NP_057097
MIM	606934
UniProt ID	Q9Y375
Chromosome Location	15q11.2-q21.3
Function	protein binding; unfolded protein binding;

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