Recombinant Human NDUFS1 protein, His & T7-tagged

Cat. No. NDUFS1-1716H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human NDUFS1 aa. (Ala524~Cys727 (Accession # P28331)) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Ala524~Cys727
Description	The protein encoded by this gene belongs to the complex I 75 kDa subunit family. Mammalian complex I is composed of 45 different subunits. It locates at the mitochondrial inner membrane. This protein has NADH dehydrogenase activity and oxidoreductase activity. It transfers electrons from NADH to the respiratory chain. The immediate electron acceptor for the enzyme is believed to be ubiquinone. This protein is the largest subunit of complex I and it is a component of the iron-sulfur (IP) fragment of the enzyme. It may form part of the active site crevice where NADH is oxidized. Mutations in this gene are associated with complex I deficiency. Several transcript variants encoding different isoforms have been found for this gene.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 25.9kDa
Endotoxin	<1.0EU per 1ug (determined by the LAL method)

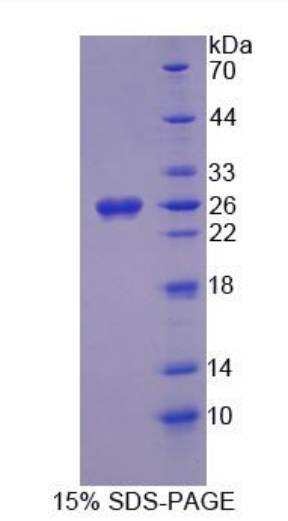
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Purity	>90%
Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.
Isoelectric Point	5

GENE INFORMATION

Gene Name	NDUFS1 NADH:ubiquinone oxidoreductase core subunit S1 [Homo sapiens (human)]
Official Symbol	NDUFS1
Synonyms	NDUFS1; NADH:ubiquinone oxidoreductase core subunit S1; CI-75k; CI-75Kd; PRO1304; NADH-ubiquinone oxidoreductase 75 kDa subunit, mitochondrial; NADH dehydrogenase (ubiquinone) Fe-S protein 1, 75kDa (NADH-coenzyme Q reductase); complex I 75kDa subunit; complex I, mitochondrial respiratory chain, 75-kD subunit; mitochondrial NADH-ubiquinone oxidoreductase 75 kDa subunit

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Gene ID	4719
mRNA Refseq	NM_001199981.1
Protein Refseq	NP_001186910.1
UniProt ID	P28331
SDS-PAGE	

15% SDS-PAGE

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