
Product Data Sheet

Product Name: NDUFS4 Human

Cat. No.: GP21990

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	AQDQ; NDUFS4; NADH dehydrogenase [ubiquinone] iron-sulfur protein 4 mitochondrial; NADH-ubiquinone oxidoreductase 18 kDa subunit; Complex I-18 kDa; CI-18 kDa; Complex I-AQDQ; CI-AQDQ.		
Amino Acid Sequence	MAQDQTQDTQ LITVDEKLDI TTLTGVPEEH IKTRKVRIFV PARNNMQSGV NNTKKWKMEF DTRERWENPL MGWASTADPL SNMVLTFSTK EDAVSFAEKN GWSYDIEERK VPKPKSKSYG ANFSWNKRTR VSTK.		
Formulation	The NDUFS4 solution contains 20mM Tris pH-8 & 30% glycerol.		

Introduction

NDUFS4 is a subunit of the mitochondrial membrane respiratory chain NADH dehydrogenase (Complex I), the primary multi-subunit enzyme complex of the mitochondrial respiratory chain. Complex I is involved in cellular ATP production, the main source of energy for numerous vital processes in living cells. NDUFS4 removes electrons from NADH and passes them by a series of diverse protein-coupled redox centers to the electron acceptor ubiquinone. NDUFS4 presents a hotspot of mutations in the genetic apparatus of oxidative phosphorylation and the correct assembly of the subunit it encodes is essential for completion of the assembly of complex I.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Background

NDUFS4 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 134 amino acids (43-175 a.a.) and having a molecular

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mass of 15.5 kDa. The NDUFS4 is purified by proprietary chromatographic techniques.

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