
Product Data Sheet

Product Name: NDUFA4 Human
 Cat. No.: GP21981
 Batch No.: 1

Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	NDUFA4; Mitochondrial Complex Associated; NADH-Ubiquinone Oxidoreductase MLRQ Subunit; NADH Dehydrogenase (Ubiquinone) 1 Alpha Subcomplex; 4; 9kDa; Complex I 9kDa Subunit; Complex I-MLRQ; CI-MLRQ; NADH Dehydrogenase (Ubiquinone) 1 Alpha Subcomplex; 4 (9kD; MLRQ); NADH Dehydrogenase[Ubiquinone] 1 Alpha Subcomplex Subunit 4; CI-9k; MLRQ; Cytochrome c oxidase subunit NDUFA4.		
Amino Acid Sequence	MGSSHHHHHSSGLVPRGSH MGSMLRQIIGQAKKHPSLIP LFVFIGTGAT GATLYLLRLA LFNPDVCWDR NNPEPWNLKG PNDQYKFYSV NVDYSKLLKKEPDF.		
Formulation	NDUFA4 protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 10% glycerol and 0.4M Urea.		

Introduction

NADH Dehydrogenase 1 Alpha Subcomplex 4 (NDUFA4) is a member of the complex I 9kDa subunit family. Mammalian complex I of mitochondrial respiratory chain is comprised of 45 different subunits. NDUFA4 protein has NADH dehydrogenase activity and oxidoreductase activity. NDUFA4 transfers electrons from NADH to the respiratory chain. The immediate electron acceptor for the NDUFA4 enzyme is assumed to be ubiquinone.

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). Avoid multiple freeze-thaw cycles.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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Background

NDUFA4 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 104 amino acids (1-81 a.a) and having a molecular mass of 11.8kDa. NDUFA4 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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