
Product Data Sheet

Product Name: NDUFA5 Human
 Cat. No.: GP21982
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 5; Complex I subunit B13; Complex I-13kD-B; CI-13kD-B; NADH-ubiquinone oxidoreductase 13 kDa-B subunit; NDUFA5; B13; NUFM; UQOR13; CI-13kD.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMAGVLKK TTGLVGLAVC NTPHERLRIL YTKILDVLEE IPKNAAYRKY TEQITNEKLA MVKAEPDVKK LEDQLQGGQL EEVILQAEHE LNLARKMREW KLWEPLVEEP PADQWKWPI.		
Formulation	The NDUFA5 solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 10% glycerol and 1mM DTT.		

Introduction

NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 5 (NDUFA5) is a member of the complex I NDUFA5 subunit family. The human NDUFA5 gene codes for the B13 subunit of complex I of the respiratory chain that transfers electrons from NADH to ubiquinone. The NDUFA5 protein localizes to the inner mitochondrial membrane as part of the seven component-containing, water soluble 'iron-sulfur protein' (IP) fraction of complex I, even though its exact role is undetermined.

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.

Background

NDUFA5 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 139 amino acids (1-116) and having a molecular mass of

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

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15.8kDa.NDUFA5 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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