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Product Information

MemDX™ Membrane Protein Human NDUFA1 (NADH:ubiquinone oxidoreductase subunit A1) Expressed *in vitro E.coli* expression system, Full Length

Cat. No.: **MPX3668K**
This product is for research use only and is not intended for diagnostic use.

This product is a Human NDUFA1 membrane protein expressed *in vitro E.coli* expression system. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species
Human

Target Protein
NDUFA1

Protein Length
Full Length

Protein Class
Transport

TMD
1

Sequence
MWFEILPGLSVMGVCLLIPGLATAYIHRFTNGGKEKRVAHFGYHWSLMERDRRISGVDRYYVSKGLENID

Product Description

Expression Systems
in vitro E.coli expression system

Tag
10xHis tag at the N-terminus

Protein Format
Soluble

Form
Liquid or Lyophilized powder

Buffer

Tris/PBS-based buffer, 6% Trehalose, pH 8.0

Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -70°C or lower. Avoid freeze/thaw cycles.

Target

Target Protein

NDUFA1

Full Name

NADH:ubiquinone oxidoreductase subunit A1

Introduction

The human NDUFA1 gene codes for an essential component of complex I of the respiratory chain, which transfers electrons from NADH to ubiquinone. It has been noted that the N-terminal hydrophobic domain has the potential to be folded into an alpha-helix spanning the inner mitochondrial membrane with a C-terminal hydrophilic domain interacting with globular subunits of complex I. The highly conserved two-domain structure suggests that this feature is critical for the protein function and might act as an anchor for the NADH:ubiquinone oxidoreductase complex at the inner mitochondrial membrane. However, the NDUFA1 peptide is one of about 31 components of the "hydrophobic protein" (HP) fraction of complex I which is involved in proton translocation. Thus the NDUFA1 peptide may also participate in that function.

Alternative Names

NDUFA1; MWFE; ZNF183; CI-MWFE; MC1DN12; NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 1; NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 1, 7.5kDa; NADH-ubiquinone oxidoreductase MWFE subunit; NADH:ubiquinone oxidoreductase (complex 1); complex I MWFE subunit; type I dehydrogenase; NADH:ubiquinone oxidoreductase subunit A1

Gene ID

4694

UniProt ID

O15239

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