Recombinant human NDUFA2 protein

Catalog Number: ATGP1770

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-99aa

UniProt No.
O43678

NCBI Accession No.
NP_002479

Alternative Names
NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 2, Complex I-B8, CI-B8, NADH-ubiquinone oxidoreductase B8 subunit, NADH:ubiquinone oxidoreductase subunit A2

PRODUCT SPECIFICATION

Molecular Weight
13.3 kDa (122aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol,1mM DTT

Purity
> 95% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description
NDuFA2 is a subunit of the hydrophobic protein fraction of the NADH:ubiquinone oxidoreductase (complex 1), the first enzyme complex in the electron transport chain located in the inner mitochondrial membrane, and may be involved in regulating complex I activity or its assembly via assistance in redox. Mutations in this protein are associated with Leigh syndrome, an early-onset progressive neurodegenerative disorder. Recombinant human NDuFA2 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional

chromatography techniques.

Amino acid Sequence

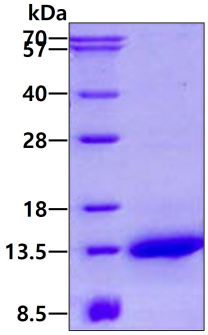
<MGSSHHHHHH SSGLVPRGSH MGS>MAAAAAS RGVGAKLGLR EIRIHLCQRS PGSQGVRDFI EKRYVELKKA NPDLPILIRE CSDVQPKLWA RYAFGQETNV PLNNFSADQV TRALENVLSG KA

General References

Murray,J.,et al. (2003) J. Biol. Chem. 278 (16), 13619-13622
Loeffen,J.L.., et al. (1998) Biochem. Biophys. Res. Commun. 253 (2), 415-422.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.