

NDUFS3 Human

Description: Recombinant Human NDUFS3 produced in E.Coli is a single, non-glycosylated polypeptide chain containing 249 amino acids (37-264 a.a.) and having a molecular mass of 28.7 kDa. NDUFS3 is fused to a 21 amino acid His Tag at N-terminus and purified by conventional chromatography techniques.

Catalog #: ENPS-669

For research use only.

Synonyms: CI-30, NADH dehydrogenase [ubiquinone] iron-sulfur protein 3, mitochondria, Complex I-30kD, CI-30kD, NADH-ubiquinone oxidoreductase 30 kDa subunit.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered colorless solution.

Amino Acid Sequence: MGSSHHHHHH SSGLVPRGSH MESAGADTRP TVRPRNDVAH
KQLSAFGEYV AEILPKYVQQ VQVSCFNELE VCIHPDGVIP VLTFLRDHTN AQFKSLVDLT
AVDVPTRQNR FEIVYNLLSL RFNSRIRVKT YTDELTPIES AVSVFKAANW YEREIWDMMFG
VFFANHPDLR RILTDYGFEG HPFRKDFPLS GYVELRYDDE VKRVVAEPVE LAQEFRKFDL
NSPWEAFPVY RQ

Purity: Greater than 85.0% as determined by SDS-PAGE.

Formulation:

The NDUFS3 protein solution (0.25mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 10% glycerol and 1mM DTT.

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.

Usage:

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Introduction:

NADH dehydrogenase [ubiquinone] iron-sulfur protein 3 (NDUFS3) is a member of the complex I 30 kDa subunit family. NDUFS3 is one of the iron-sulfur protein (IP) components of mitochondrial NADH:ubiquinone oxidoreductase (complex I). This complex is the first enzyme complex in the electron transport chain of mitochondria. The iron-sulfur protein (IP) fraction of complex I consists of seven subunits. NDUFS3 gene mutations are linked with Leigh syndrome resulting from mitochondrial complex inefficiency.

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