Product Data Sheet

Product Name:	NDUFS3 Human
Cat. No.:	GP21989
Batch No.:	1

Product Data

Purity	>98%	Source	Escherichia Coli.
Phycical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	CI-30; NADH dehydrogenase [ubiquinone] iron-sulfur protein 3; mitochondria; Complex I-30kD; CI-30kD; NADH-ubiquinone oxidoreductase 30 kDa subunit.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MESAGADTRP TVRPRNDVAH KQLSAFGEYV AEILPKYVQQ VQVSCFNELE VCIHPDGVIP VLTFLRDHTN AQFKSLVDLT AVDVPTRQNR FEIVYNLLSL RFNSRIRVKT YTDELTPIES AVSVFKAANW YEREIWDMFG VFFANHPDLR RILTDYGFEG HPFRKDFPLS GYVELRYDDE VKRVVAEPVE LAQEFRKFDL NSPWEAFPVY RQPPESLKLE AGDKKPDAK		
Formulation	The NDUFS3 protein solution (0.25mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 10% glycerol and 1mM DTT.		

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 indefficiency.

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

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Recombinant Human NDUFS3 produced in E.Coli is a single, non-glycosylated polypeptide chain containing 249amino 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.

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