
Product Data Sheet

Product Name: NDUFS2 Human
 Cat. No.: GP21988
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	CI-49 ; NADH dehydrogenase [ubiquinone] iron-sulfur protein 2; mitochondrial; Complex I-49kD; CI-49kD; NADH-ubiquinone oxidoreductase 49 kDa subunit; NDUFS2.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSVKNITLN FGPQHAAHG VLRLVMELSG EMVRKCDPHI GLLHRGTEKL IEYKTYLQAL PYFDRLDYVS MMCNEQAYSL AVEKLLNIRP PPRAQWIRVL FGEITRLLNH IMAVTTHALD LGAMTPFFWL FEEREKMFEE YERVSGARMH AAYIRPGGVH QDLPLGLMDD IYQFSKNFSL RLDELEELLT NNRIWRNRTI DIGVVTAEEA LNYGFSGVML RGSGIQWDLR KTQPYDVYDQ VEFDVPVGSR GDCYDRYLCR VEEMRQSLRI IAQCLNKMPP GEIKVDDAKV SPPKRAEMKT SMESLIHHFK LYTEGYQVPP GATYTAIEAP KGEFGVYLVLS DGSSRPYRCK IKAPGFAHLA GLDKMSKGHM LADVVAIIGT QDIVFGEVDR.		
Formulation	The NDUFS2 solution (0.25mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.4M Urea and 10% glycerol.		

Introduction

NDUFS2 is a core subunit of the mitochondrial membrane respiratory chain NADH dehydrogenase (Complex I) which is a part of the minimal assembly required for catalysis. Complex I takes part in the transfer of electrons from NADH to the respiratory chain. Histidine NADH Dehydrogenase Fe-S Protein 2 (NDUFS2) is required for catalytic activity. Imperfections in NDUFS2 are the source of complex I mitochondrial respiratory chain deficiency, which is characterized by many symptoms including liver failure, cardiomyopathy and neurodegeneration.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store. frozen at -20°C for longer

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

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

NDUFS2 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 410 amino acids (77-463a.a) and having a molecular mass of 46.5kDa. NDUFS2 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA