

32-2594: NDUFS2 Recombinant Protein

Alternative Name : CI-49 ,NADH dehydrogenase [ubiquinone] iron-sulfur protein 2,mitochondrial,Complex I-49kD,CI-49kD,NADH-ubiquinone oxidoreductase 49 kDa subunit,NDUFS2.

Description

Source : Escherichia Coli. NDUF52 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. NDUF52 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. NDUF52 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 (NDUF52) is required for catalytic activity. Imperfections in NDUF52 are the source of complex I mitochondrial respiratory chain deficiency, which is characterized by many symptoms including liver failure, cardiomyopathy and neurodegeneration.

Product Info

Amount :	10 µg
Purification :	Greater than 80% as determined by SDS-PAGE.
Content :	The NDUF52 solution (0.25mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.4M Urea and 10% glycerol.
Storage condition :	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.
Amino Acid :	MGSSHHHHHH SSGLVPRGSH MGSVKNITLN FGPQHAAHG VLRLVMELSG EMVRKCDPHI GLLHRGTEKL IEYKTYLQAL PYFDRLDYVS MMCNEQAYSL AVEKLLNIRP PPRAQWIRVL FGEITRLLNH IMAVTTHALD LGAMTPFFWL FEEREKMFEEF YERVSGARMH AAYIRPGGVH QDLPLGLMDD IQQFSKNFSL RLDELEELLT NNRIWRNRTI DIGVVTAEEA LNYGFSGVML RGSIGQWDLR KTQPYDVYDQ VEFDVPVGSR GDCYDRYLCR VEEMRQLRI IAQCLNKMPPE GEIKVDDAKV SPPKRAEMKT SMESLIHHFK LYTEGYQVPP GATYTAIEAP KGEFGVYLVV DGSSRPYRCK IKAPGFAHLA GLDKMSKGHM LADVVAIIGT QDIVFGEVDR.