

NDUFS2, 77-463aa, Human, His tag, E.coli

Cat.NO.: TP03129

3th Edition

Synonyms:NADH dehydrogenase [ubiquinone] iron-sulfur protein 2, mitochondrial isoform 1 precursor, CI-49

Description:NADH dehydrogenase [ubiquinone] iron-sulfur protein 2, mitochondrial isoform 1 precursor, also known as NDUFS2, is a 463 amino acid protein that is suggested to be required for catalytic activity. Defects in NDUFS2 are the cause of complex I mitochondrial respiratory chain deficiency, which is characterized by a variety of symptoms including liver failure, cardiomyopathy and neurodegeneration. Located in the mitochondrial inner membrane, mitochondrial complex I is the first and largest enzyme in the electron transport chain of oxidative phosphorylation. Recombinant human NDUFS2 protein, fused to His-tag at N-terminus, was expressed in E.coli.

Form:Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol

Molecular Weight:46.5kDa (410aa)

Sequences:

MGSSHHHHHHSSGLVPRGSHMGSVKNITLNFQHPAAHGVRLRLVMEISGEMVRKCDPHIGLLHRGTEKLEIYKT
YLQALPYFDRLDYVSMCMNEQAYSLAVEKLLNIRPPPRAQWIRVLFGEITRLLNHIMAVTTHALDLGAMTPFFWLF
EREKMFYERVSGARMHAAAYIRPGGVHQLPLGLMDDIYQFSKNFSLRLDELELLTNNRIWRNRTIDIGVVTAAE
ALNYGFSGVMLRGSGIQWDLRKTQPYDVYDQVEFDVPVGSRGDCYDRYLCRVEEMRQSLRIIAQCLNKMPPEIK
VDDAKVSPKRAEMKTSMESLIHFKLYTEGYQVPPGATYTAIEAPKGEFGVYLVSDGSSRPYRCKIKAPGFAHLA
GLDKMSKGMHLADVVAIIGTQDIVFGEVDR

Purity:> 95% by HPLC

Concentration:0.25 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.