

Product datasheet for PH303485

NDUFS2 (NM_004550) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	NDUFS2 MS Standard C13 and N15-labeled recombinant protein (NP_004541)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC203485
Predicted MW:	52.5 kDa
Protein Sequence:	>RC203485 protein sequence Red=Cloning site Green=Tags(s)

MAALRALCGFRGVAQVLRPGAGVRLPIQPSRGVRQWQPDVEWAQQFGGAVMYPKETAHWKPPWNDVD
PPKDTIVKNITLNFQHPAAHGVRLRLVMELSGEMVRKCDPHIGLLHRGTEKLEIYKTYLQALPYFDRLD
YVSMCNEQAYSLAVEKLLNIRPPRAQWIRVLFGEITRLLNHIMAVTTHALDLGAMTPFFWLFEEREKM
FEFYERVSGARMHAAYIRPGGVHQLPLGLMDDIYQFSKNFSLRLDELEELLTNNRIWRNRTIDIGVVTA
EEALNYGFSGVMLRGSGIQWDLRKTQPYDVYDQVEFDVPVGSRGDCYDRYLCRVEEMRQSLRIIAQCLNK
MPPGEIKVDDAKVSPPKRAEMKTSMESLIHHFKLYTEGYVPPGATYTAIEAPKGEFGVYLVSDGSSRPY
RCKIKAPGFAHLAAGLDKMSKGHMLADVVAIIGTQDIVFGEVDR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_004541
RefSeq Size:	2059
RefSeq ORF:	1389
Synonyms:	CI-49; MC1DN6



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Locus ID: 4720

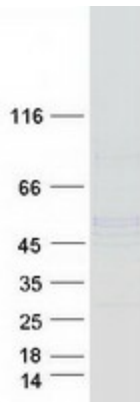
UniProt ID: [O75306](#)

Cytogenetics: 1q23.3

Summary: The protein encoded by this gene is a core subunit of the mitochondrial membrane respiratory chain NADH dehydrogenase (complex I). Mammalian mitochondrial complex I is composed of at least 43 different subunits, 7 of which are encoded by the mitochondrial genome, and the rest are the products of nuclear genes. The iron-sulfur protein fraction of complex I is made up of 7 subunits, including this gene product. Complex I catalyzes the NADH oxidation with concomitant ubiquinone reduction and proton ejection out of the mitochondria. Mutations in this gene are associated with mitochondrial complex I deficiency. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Oct 2009]

Protein Pathways: Alzheimer's disease, Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease

Product images:



Coomassie blue staining of purified NDUFS2 protein (Cat# [TP303485]). The protein was produced from HEK293T cells transfected with NDUFS2 cDNA clone (Cat# [RC203485]) using MegaTran 2.0 (Cat# [TT210002]).