

Product datasheet for PH305506

NDUFS1 (NM_005006) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	NDUFS1 MS Standard C13 and N15-labeled recombinant protein (NP_004997)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC205506
Predicted MW:	79.44 kDa
Protein Sequence:	>RC205506 representing NM_005006 Red=Cloning site Green=Tags(s)

MLRIPVRKALVGLSKSPKGCVRTTATAASNLIEVFVDGQSVMEPGTTVLQACEKVGMIIPRFCYHERLS
VAGNCRMCLVEIEKAPKVVAACAMPVMKGNILTNSEKSKKAREGVMFLLANHPLDCPICDQGGCEDLQ
DQSMFMGNDRSRFLEKRAVEDKNIGPLVKTIMTRCIQCTRCIRFASEIAGVDDLTTGRNDMQVGTI
EKMFMSSELSGNIIDICPVGALTSKPYAFTAQPWETRKTESIDVMDAVGSNIIVVSTRTGEVMRILPRMHED
INEEWISDKTRFAYDGLKRQLTEPMVRNEKGLLTYTSWEDALSRVAGMLQSFQGDVAAIAGGLVDAEA
LVALKDLLNRVSDTLCTEEVFPTAGAGTDLRSNYLLNTTIAGVEEADVLLVGTNPRFEAPLFNARIRK
SWLHNDLKVALIGSPVDLTYTYDHLGDSPKILQDIASGSHPFQVLKEAKKPMVVLGSSALQRNDGAAIL
AAVSSIAQKIRMTSGVTGDWKMNIHLRIASQVAALDLGYKPGVEAIRKNPPKVLFLGADGGCITRQDL
PKDCFIIYQGHGVDVGAPIADVILPGAAYTEKSATYVNTTEGRAQQTAVVTPPLAREDWKIIIRALSEIA
GMTLPYDTLDQVRNRLLEEVSPLVRYDDIEGANYFQQANELSKLVNQQLADPLVPPQLTIKDFYMTDSI
SRASQTMKCVKAVTEGAQAVEEPSIC

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:	<u>NP_004997</u>



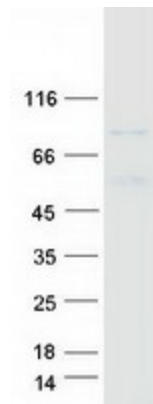
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RefSeq Size:	3417
RefSeq ORF:	2181
Synonyms:	CI-75k; CI-75Kd; MC1DN5; PRO1304
Locus ID:	4719
UniProt ID:	P28331 , E5KRK5
Cytogenetics:	2q33.3

Summary: The protein encoded by this gene belongs to the complex I 75 kDa subunit family. Mammalian complex I is composed of 45 different subunits. It locates at the mitochondrial inner membrane. This protein has NADH dehydrogenase activity and oxidoreductase activity. It transfers electrons from NADH to the respiratory chain. The immediate electron acceptor for the enzyme is believed to be ubiquinone. This protein is the largest subunit of complex I and it is a component of the iron-sulfur (IP) fragment of the enzyme. It may form part of the active site crevice where NADH is oxidized. Mutations in this gene are associated with complex I deficiency. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2011]

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

Product images:



Coomassie blue staining of purified NDUFS1 protein (Cat# [TP305506]). The protein was produced from HEK293T cells transfected with NDUFS1 cDNA clone (Cat# [RC205506]) using MegaTran 2.0 (Cat# [TT210002]).