

Product datasheet for PH301539

NDUFA5 (NM_005000) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	NDUFA5 MS Standard C13 and N15-labeled recombinant protein (NP_004991)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC201539
Predicted MW:	13.5 kDa
Protein Sequence:	>RC201539 protein sequence Red=Cloning site Green=Tags(s) MAGVLKKTGLVGLAVCNTPHERLRILYTKILDVLEEIPKNAAYRKYTEQITNEKLMVKAEPDVKKLED QLQGGQLEEVILQAEHELNLARKMREWKLWEPLVEEPPADQWKWPI 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_004991
RefSeq Size:	5602
RefSeq ORF:	348
Synonyms:	B13; CI-13kB; CI-13KD-B; NUFM; UQOR13
Locus ID:	4698
UniProt ID:	Q16718 , A0A024R745
Cytogenetics:	7q31.32



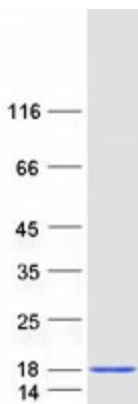
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Summary:

This nuclear gene encodes a conserved protein that comprises the B13 subunit of complex I of the mitochondrial respiratory chain. The encoded protein localizes to the inner mitochondrial membrane, where it is thought to aid in the transfer of electrons from NADH to ubiquinone. Alternative splicing results in multiple transcript variants. There are numerous pseudogenes of this gene on chromosomes 1, 3, 6, 8, 9, 11, 12, and 16. [provided by RefSeq, Apr 2014]

Protein Pathways:

Alzheimer's disease, Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease

Product images:

Coomassie blue staining of purified NDUFA5 protein (Cat# [TP301539]). The protein was produced from HEK293T cells transfected with NDUFA5 cDNA clone (Cat# [RC201539]) using MegaTran 2.0 (Cat# [TT210002]).