

Product datasheet for PH300099

COX16 (NM_016468) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	COX16 MS Standard C13 and N15-labeled recombinant protein (NP_057552)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC200099
Predicted MW:	12.3 kDa
Protein Sequence:	>RC200099 protein sequence Red=Cloning site Green=Tags(s) MFAPAVMRAFRKNKTLGYGVPMLLLIVGGSFGLREFSQIRYDAVKSKMDPELEKCLKENKISLESEYEKI KDSKFDDWKNIRGPRPWEDPDLQGRNPESLKTKTT 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_057552
RefSeq Size:	1724
RefSeq ORF:	318
Synonyms:	C14orf112; hCOX16; HSPC203
Locus ID:	51241
UniProt ID:	Q9P0S2
Cytogenetics:	14q24.2



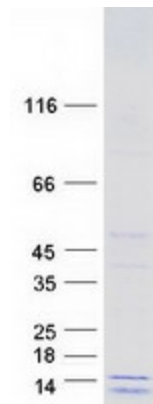
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Summary:

Required for the assembly of the mitochondrial respiratory chain complex IV (CIV), also known as cytochrome c oxidase (PubMed:29355485, PubMed:29381136). Promotes the insertion of copper into the active site of cytochrome c oxidase subunit II (MT-CO2/COX2) (PubMed:29355485, PubMed:29381136). Interacts specifically with newly synthesized MT-CO2/COX and its copper center-forming metallochaperones SCO1, SCO2 and COA6 (PubMed:29381136). Probably facilitates MT-CO2/COX2 association with the MITRAC assembly intermediate containing MT-CO1/COX1, thereby participating in merging the MT-CO1/COX1 and MT-CO2/COX2 assembly lines (PubMed:29381136).[UniProtKB/Swiss-Prot Function]

Protein Families:

Secreted Protein, Transmembrane

Product images:

Coomassie blue staining of purified COX16 protein (Cat# [TP300099]). The protein was produced from HEK293T cells transfected with COX16 cDNA clone (Cat# [RC200099]) using MegaTran 2.0 (Cat# [TT210002]).