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Product datasheet for PH301768

COX7C (NM_001867) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	COX7C MS Standard C13 and N15-labeled recombinant protein (NP_001858)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC201768
Predicted MW:	7.2 kDa
Protein Sequence:	>RC201768 protein sequence Red=Cloning site Green=Tags(s) MLGQSIRRFTTSVVRRSHYEEGPGKNLPFSVENKWSLLAKMCLYFGSAFATPFLVVRHQLLKT 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_001858
RefSeq Size:	448
RefSeq ORF:	189
Locus ID:	1350
UniProt ID:	P15954
Cytogenetics:	5q14.3

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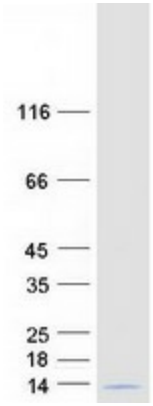
Summary: Cytochrome c oxidase (COX), the terminal component of the mitochondrial respiratory chain, catalyzes the electron transfer from reduced cytochrome c to oxygen. This component is a heteromeric complex consisting of 3 catalytic subunits encoded by mitochondrial genes and multiple structural subunits encoded by nuclear genes. The mitochondrially-encoded subunits function in electron transfer, and the nuclear-encoded subunits may function in the regulation and assembly of the complex. This nuclear gene encodes subunit VIIc, which shares 87% and 85% amino acid sequence identity with mouse and bovine COX VIIc, respectively, and is found in all tissues. A pseudogene COX7CP1 has been found on chromosome 13. [provided by RefSeq, Jul 2008]

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

Product images:



Coomassie blue staining of purified COX7C protein (Cat# [TP301768]). The protein was produced from HEK293T cells transfected with COX7C cDNA clone (Cat# [RC201768]) using MegaTran 2.0 (Cat# [TT210002]).