

## Product datasheet for PH310485

### COX6A1 (NM\_004373) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	COX6A1 MS Standard C13 and N15-labeled recombinant protein (NP_004364)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC210485
Predicted MW:	12.2 kDa
Protein Sequence:	>RC210485 protein sequence Red=Cloning site Green=Tags(s)  MAVVGVSYSRLLGRSRPQLGRPMSSGAHGEEGARMWKLTFFVALPGVAVSMLNVYLKSHHGEHERPE FIAYPHLRIRTKPFPPWGDGNHTLFHNPHVNPLPTGYEDE  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:	<a href="#">NP_004364</a>
RefSeq Size:	593
RefSeq ORF:	327
Synonyms:	CMTRID; COX6A; COX6AL
Locus ID:	1337
UniProt ID:	<a href="#">P12074</a> , <a href="#">H6SG15</a>
Cytogenetics:	12q24.2



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**Summary:**

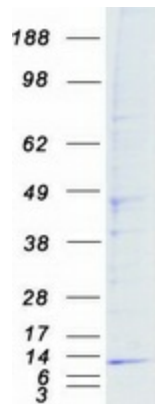
Cytochrome c oxidase (COX), the terminal enzyme of the mitochondrial respiratory chain, catalyzes the electron transfer from reduced cytochrome c to oxygen. It is a heteromeric complex consisting of 3 catalytic subunits encoded by mitochondrial genes and multiple structural subunits encoded by nuclear genes. The mitochondrially-encoded subunits function in the electron transfer and the nuclear-encoded subunits may function in the regulation and assembly of the complex. This nuclear gene encodes polypeptide 1 (liver isoform) of subunit VIa, and polypeptide 1 is found in all non-muscle tissues. Polypeptide 2 (heart/muscle isoform) of subunit VIa is encoded by a different gene, and is present only in striated muscles. These two polypeptides share 66% amino acid sequence identity. It has been reported that there may be several pseudogenes on chromosomes 1, 6, 7q21, 7q31-32 and 12. However, only one pseudogene (COX6A1P) on chromosome 1p31.1 has been documented. [provided by RefSeq, Jul 2008]

**Protein Families:**

Transmembrane

**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 COX6A1 protein (Cat# [TP310485]). The protein was produced from HEK293T cells transfected with COX6A1 cDNA clone (Cat# [RC210485]) using MegaTran 2.0 (Cat# [TT210002]).