

Product datasheet for PH306539

COX6A2 (NM_005205) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	COX6A2 MS Standard C13 and N15-labeled recombinant protein (NP_005196)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC206539
Predicted MW:	10.8 kDa
Protein Sequence:	>RC206539 protein sequence Red =Cloning site Green =Tags(s) MALPLRPLTRGLASAAKGGHGGAGARTWRLTFVLALPSVALCTFNSYLHSGHRPRPEFRPYQHLRIRTK PYPWGDGNHTLFHNSHVNPLPTGYEHP TR TRPLEQKLISEEDLAANDILDYKDDDDKV
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_005196
RefSeq Size:	441
RefSeq ORF:	291
Synonyms:	COX6AH; COXVIAH; MC4DN18
Locus ID:	1339
UniProt ID:	Q02221
Cytogenetics:	16p11.2



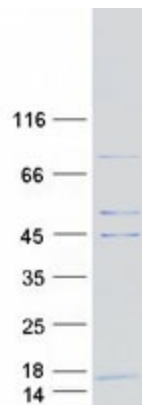
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Summary:

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 electron transfer, and the nuclear-encoded subunits may be involved in the regulation and assembly of the complex. This nuclear gene encodes polypeptide 2 (heart/muscle isoform) of subunit VIa, and polypeptide 2 is present only in striated muscles. Polypeptide 1 (liver isoform) of subunit VIa is encoded by a different gene, and is found in all non-muscle tissues. These two polypeptides share 66% amino acid sequence identity. [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 COX6A2 protein (Cat# [TP306539]). The protein was produced from HEK293T cells transfected with COX6A2 cDNA clone (Cat# [RC206539]) using MegaTran 2.0 (Cat# [TT210002]).