

Product datasheet for PH306046

COX5A (NM_004255) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	COX5A MS Standard C13 and N15-labeled recombinant protein (NP_004246)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC206046
Predicted MW:	16.8 kDa
Protein Sequence:	>RC206046 protein sequence Red =Cloning site Green =Tags(s) MLGAALRRCAVAATTRADPRGLLHSARTPGPAVAIQSVRCYSHGSQETDEEFDARWVTFYFNKPDIDAWEL RKGINTLVTYDMVPEPKIIDAALRACRRLNDFASTVRILEVVKDKAGPHKEIYPYVIQELRPTLNELGIS TPEELGLDKV TRTRPLEQKLI SEEDLAANDILDYKDDDDKV
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- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-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_004246
RefSeq Size:	784
RefSeq ORF:	450
Synonyms:	COX; COX-VA; MC4DN20; VA
Locus ID:	9377
UniProt ID:	P20674



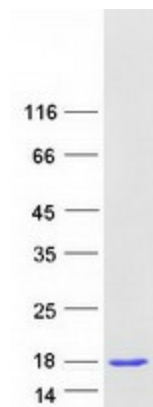
[View online »](#)

Cytogenetics: 15q24.2

Summary: Cytochrome c oxidase (COX) is the terminal enzyme of the mitochondrial respiratory chain. It is a multi-subunit enzyme complex that couples the transfer of electrons from cytochrome c to molecular oxygen and contributes to a proton electrochemical gradient across the inner mitochondrial membrane. The complex consists of 13 mitochondrial- and nuclear-encoded subunits. The mitochondrially-encoded subunits perform the electron transfer of proton pumping activities. The functions of the nuclear-encoded subunits are unknown but they may play a role in the regulation and assembly of the complex. This gene encodes the nuclear-encoded subunit Va of the human mitochondrial respiratory chain enzyme. A pseudogene COX5AP1 has been found in chromosome 14q22. [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 COX5A protein (Cat# [TP306046]). The protein was produced from HEK293T cells transfected with COX5A cDNA clone (Cat# [RC206046]) using MegaTran 2.0 (Cat# [TT210002]).