

Product datasheet for PH302511

COX5B (NM_001862) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	COX5B MS Standard C13 and N15-labeled recombinant protein (NP_001853)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC202511
Predicted MW:	13.7 kDa
Protein Sequence:	>RC202511 protein sequence Red=Cloning site Green=Tags(s) MASRLLRGAGTLAAQALRARGPSGAAAMRSMASGGGVPTDEEQATGLEREIMLAACKGLDPYNVLAPKGA SGTREDPNLVPSISNKRIVGCICEEDNTSVVFWLHKGEAQRCPRCGAHYKLVPPQLAH 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_001853
RefSeq Size:	523
RefSeq ORF:	387
Synonyms:	COXVB
Locus ID:	1329
UniProt ID:	P10606 , A0A384NL93
Cytogenetics:	2q11.2



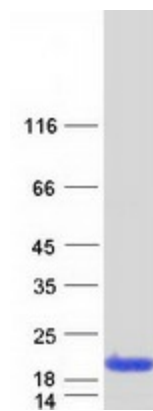
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Summary:

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 and 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 Vb of the human mitochondrial respiratory chain enzyme. [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 COX5B protein (Cat# [TP302511]). The protein was produced from HEK293T cells transfected with COX5B cDNA clone (Cat# [RC202511]) using MegaTran 2.0 (Cat# [TT210002]).