

Recombinant Human COX5A Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. COX5A-1689H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	COX5A MS Standard C13 and N15-labeled recombinant protein (NP_004246) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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.
Molecular Mass	16.8 kDa
AA Sequence	MLGAALRRCAVAATTRADPRGLLHSARTPGPAVAIQSVRCYSHGSQETDEEFDAR WVTYFNKPDIDAWELRKGINTLVTYDMVPEPKIIDAALRACRRLNDFASTVRILEVVK DKAGPHKEIYPYVIQELRPTLNELGISTPEELGLDKVTRTRPLEQKLISEEDLAANDILD

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	YKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	COX5A cytochrome c oxidase subunit Va [Homo sapiens (human)]
Official Symbol	COX5A
Synonyms	COX5A; cytochrome c oxidase subunit Va; cytochrome c oxidase subunit 5A, mitochondrial; cytochrome c oxidase polypeptide Va; mitochondrial cytochrome c oxidase subunit Va; cytochrome c oxidase polypeptide, mitochondrial; VA; COX; COX-VA;
Gene ID	9377
mRNA Refseq	NM_004255
Protein Refseq	NP_004246
MIM	603773

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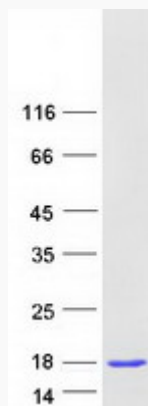
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UniProt ID

P20674

SDS-PAGE

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