

## Recombinant Human COX5A, His-tagged

**Cat. No.** COX5A-7085H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human COX5A protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	42-150aa
<b>Description</b>	COX5A, also known as COX, COX-VA and VA, belongs to the cytochrome c oxidase subunit 5A family. Cytochrome c oxidase (COX), the terminal component of the mitochondrial respiratory chain, catalyzes the electron transfer from reduced cytochrome c to oxygen. This component 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 function in the regulation and assembly of the complex. COX5A is the heme A-containing chain of cytochrome c oxidase, the terminal oxidase in mitochondrial electron transport.
<b>Form</b>	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 10% glycerol, 2mM DTT
<b>Molecular Mass</b>	4.9kDa (132aa)
<b>AA Sequence</b>	MGSSHHHHHH SSGLVPRGSH MGSSHGSQET DEEFDARWVT YFNKPDIDAW

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ELRKGINTLV TYDMVPEPKI IDAALRACRR LNDFASTVRI LEVVKDKAGP  
HKEIYPYVIQ ELRPTLNELG ISTPEELGLD KV

**Purity** >95% by SDS - PAGE

**Applications** SDS-PAGE

**Storage** Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

**Concentration** 1 mg/ml

## GENE INFORMATION

**Gene Name** [COX5A cytochrome c oxidase subunit Va \[ Homo sapiens \]](#)

**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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<b>UniProt ID</b>	P20674
<b>Chromosome Location</b>	15q25
<b>Pathway</b>	Alzheimers disease, organism-specific biosystem; Alzheimers disease, conserved biosystem; Arachidonate Epoxygenase / Epoxide Hydrolase, organism-specific biosystem; Cardiac muscle contraction, organism-specific biosystem; Cardiac muscle contraction, conserved biosystem; Cytochrome c oxidase, organism-specific biosystem; Cytochrome c oxidase, conserved biosystem;
<b>Function</b>	cytochrome-c oxidase activity; electron carrier activity; metal ion binding;

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