

Recombinant Human COX5A, His-tagged

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

SPECIFICATION

Product Overview	Recombinant human COX5A protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
ProteinLength	42-150aa
Description	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.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 10% glycerol, 2mM DTT
Molecular Mass	4.9kDa (132aa)
AA Sequence	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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UniProt ID	P20674
Chromosome Location	15q25
Pathway	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;
Function	cytochrome-c oxidase activity; electron carrier activity; metal ion binding;

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