

Recombinant Human COX5A Protein, GST-tagged

Cat. No. COX5A-1750H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human COX5A full-length ORF (AAH24240, 1 a.a. - 150 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
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. [provided by RefSeq, Jul 2008]
Molecular Mass	42.24 kDa
AA Sequence	MLGAALRRCVAATTRADPRGLLHSARTPGPAVAIQSVRCYSHGSQETDEEFDAR WVTYFNKPDIDAWELRKGINTLVTYDMVPEPKIIDAALRACRRLNDFASTVRILEVVK DKAGPHKEIYPYVIQELRPTLNELGISTPEELGLDKV
Applications	Enzyme-linked Immunoabsorbent Assay

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	Western Blot (Recombinant protein) Antibody Production Protein Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
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
UniProt ID	P20674

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Quality Control

Testing:



12.5% SDS-PAGE Stained with Coomassie Blue.

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