

Recombinant Human COX5B, GST-tagged

Cat. No. COX5B-11493H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human COX5B protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	1-129a.a.
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 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.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

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GENE INFORMATION

Gene Name	COX5B cytochrome c oxidase subunit Vb [Homo sapiens]
Official Symbol	COX5B
Synonyms	COX5B; cytochrome c oxidase subunit Vb; cytochrome c oxidase subunit 5B, mitochondrial; cytochrome c oxidase polypeptide VB, mitochondrial; COXVB;
Gene ID	1329
mRNA Refseq	NM_001862
Protein Refseq	NP_001853
MIM	123866
UniProt ID	P10606
Chromosome Location	2q11.2
Pathway	Alzheimers disease, organism-specific biosystem; Alzheimers disease, conserved biosystem; Androgen Receptor Signaling Pathway, 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; metal ion binding;

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