# Recombinant Human COX7C, GST-tagged

**Cat. No.** COX7C-11503H **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant Human COX7C protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose. |
| **Species** | Human |
| **Source** | E.coli |
| **ProteinLength** | 1-63a.a. |
| **Description** | 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. This nuclear gene encodes subunit VIIc, which shares 87% and 85% amino acid sequence identity with mouse and bovine COX VIIc, respectively, and is found in all tissues. A pseudogene COX7CP1 has been found on chromosome 13. |
| **Storage** | The protein is stored in PBS buffer at -20℃. Avoid repeated freezing and thawing cycles. |
| **Storage Buffer** | 1M PBS (58mM Na2HPO4,17mM NaH2PO4, 68mM NaCl, pH8. ) added with 100mM GSH and 1% Triton X-100,15%glycerol. |

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## GENE INFORMATION

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| **Gene Name** | COX7C cytochrome c oxidase subunit VIIc [ Homo sapiens ] |
| **Official Symbol** | COX7C |
| **Synonyms** | COX7C; COX7C_HUMAN; Cytochrome c oxidase polypeptide VIIc; Cytochrome c oxidase subunit 7C; mitochondrial; cytochrome-c oxidase chain VIIc; Cytochrome c oxidase polypeptide VIIc |
| **Gene ID** | 1350 |
| **mRNA Refseq** | NM_001867.2 |
| **Protein Refseq** | NP_001858.1 |
| **MIM** | 603774 |
| **UniProt ID** | P15954 |
| **Chromosome Location** | 5q14 |
| **Pathway** | Alzheimers disease, organism-specific biosystem; Alzheimers disease, conserved biosystem; Cardiac muscle contraction, organism-specific biosystem; Cardiac muscle contraction, conserved biosystem; Cytochrome c oxidase, organism-specific biosystem; Cytochrome c oxidase, conserved biosystem; Electron Transport Chain, organism-specific biosystem; |
| **Function** | cytochrome-c oxidase activity; |

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