

Recombinant Human COX17, GST-tagged

Cat. No. COX17-11488H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human COX17 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 a protein which is not a structural subunit, but may be involved in the recruitment of copper to mitochondria for incorporation into the COX apoenzyme. This protein shares 92% amino acid sequence identity with mouse and rat Cox17 proteins. This gene is no longer considered to be a candidate gene for COX deficiency. A pseudogene COX17P has been found on chromosome 13.
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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

GSH and 1% Triton X-100,15%glycerol.

GENE INFORMATION

Gene Name	COX17 COX17 cytochrome c oxidase assembly homolog (S. cerevisiae) [Homo sapiens]
Official Symbol	COX17
Synonyms	COX17; COX17 cytochrome c oxidase assembly homolog (S. cerevisiae); COX17 (yeast) homolog, cytochrome c oxidase assembly protein , COX17 homolog, cytochrome c oxidase assembly protein (S. cerevisiae) , COX17 homolog, cytochrome c oxidase assembly protein (yeast); cytochrome c oxidase copper chaperone; human homolog of yeast mitochondrial copper recruitment; MGC104397; MGC117386;
Gene ID	10063
mRNA Refseq	NM_005694
Protein Refseq	NP_005685
MIM	604813
UniProt ID	Q14061
Chromosome Location	3q13.33
Pathway	Cytochrome c oxidase, organism-specific biosystem; Cytochrome c oxidase, conserved biosystem; Electron Transport Chain, organism-specific biosystem;

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Metabolic pathways, organism-specific biosystem; Metabolism of proteins, organism-specific biosystem; Mitochondrial Protein Import, organism-specific biosystem; Oxidative phosphorylation, organism-specific biosystem;

Function

copper chaperone activity; copper ion binding; enzyme activator activity; metal ion binding;

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA