# Ubiquinone Biosynthesis Protein COQ4 Homolog, Mitochondrial (COQ4) Human Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | Ubiquinone biosynthesis protein COQ4 homolog, mitochondrial (COQ4), Recombinant Protein |
| **Full Product Name** | Recombinant Human Ubiquinone biosynthesis protein COQ4 homolog, mitochondrial (COQ4) |
| **Product Gene Name** | COQ4 recombinant protein |
| **Product Synonym Gene Name** | COQ4 |
| **Sequence** | SDGAGPLYSH HLPTSPLQKG LLAAGSAAMA LYNPYRHDMV AVLGETTGHR TLKVLRDQMR RDPEGAQILQ ERPRISTSTL DLGKLQSLPE GSLGREYLRF LDVNRVSPDT RAPTRFVDDE ELAYVIQRYR EVHDMLHTLL GMPTNILGEI VVKWFEAVQT GLPMCILGAF FGPIRLGAQS LQVLVSELIP WAVQNGRRAP CVLNLYYERR WEQSLRALRE ELGITAPPMH VQGLA |
| **Host** | E Coli or Yeast or Baculovirus or Mammalian Cell |
| **Form/Format** | Lyophilized or liquid (Format to be determined during the manufacturing process) |
| **Purity/Purification** | Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific) |
| **Preparation and Storage** | Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended. |
| **Molecular Weight** | 27,043 Da |
| **Sequence Positions** | 31-265, Full length protein |
| **Tag Information** | This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information. |
| **Sterility** | Sterile filter available upon request. |
| **Endotoxin** | Low endotoxin available upon request. |
| **OMIM** | 612898 |
| **3D Structure** | ModBase 3D Structure for Q9Y3A0 |
| **Species** | Human |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for COQ4 recombinant protein** | MBS1344158 is a recombinant protein targeting COQ4. Also known as Recombinant Human Ubiquinone biosynthesis protein COQ4 homolog, mitochondrial (COQ4). Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |
| **Other Notes** | Small volumes of COQ4 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for COQ4. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 166795285 |
| **NCBI GeneID** | 51117 |
| **NCBI Accession #** | NP_057119.2 |

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| **UniProt Primary Accession #** | Q9Y3A0 |
| **UniProt Secondary Accession #** | Q5T4B8; Q96EW4; A8WBK8; B2R958 |
| **UniProt Related Accession #** | Q9Y3A0 |
| **GenBank Nucleotide #** | NM_016035.4 |
| **NCBI Official Full Name** | ubiquinone biosynthesis protein COQ4 homolog, mitochondrial isoform 1 |
| **NCBI Official Synonym Full Names** | coenzyme Q4 |
| **NCBI Official Symbol** | COQ4 |
| **NCBI Official Synonym Symbols** | CGI-92; COQ10D7 |
| **UniProt Protein Name** | Ubiquinone biosynthesis protein COQ4 homolog, mitochondrial |
| **UniProt Synonym Protein Names** | Coenzyme Q biosynthesis protein 4 homolog |
| **Protein Family** | Ubiquinone biosynthesis protein |
| **UniProt Gene Name** | COQ4 |
| **NCBI Protein Information** | ubiquinone biosynthesis protein COQ4 homolog, mitochondrial |
| **NCBI Summary for COQ4** | This gene encodes a component of the coenzyme Q biosynthesis pathway. Coenzyme Q, an essential component of the electron transport chain, shuttles electrons between complexes I or II to complex III of the mitochondrial transport chain. This protein appears to play a structural role in stabilizing a complex that contains most of the coenzyme Q biosynthesis enzymes. Mutations in this gene are associated with mitochondrial disorders linked to coenzyme Q deficiency. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2015] |
| **UniProt Comments for COQ4** | Component of the coenzyme Q biosynthetic pathway. May play a role in organizing a multi-subunit COQ enzyme complex required for coenzyme Q biosynthesis. Required for steady-state levels of other COQ polypeptides. |
| **Research Articles on COQ4** | **1.** Three genes in our epilepsy cohort (COQ4, DNM1, and PURA), accounting for 14% (3/21) of all novel genetic etiologies identified in patients with epilepsy, were subsequently confirmed in independent publications. |
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