

## Recombinant Human COQ2 Protein, GST-tagged

Cat. No. COQ2-1713H Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Human COQ2 full-length ORF ( AAH08804.1, 1 a.a. - 371 a.a.) recombinant protein with GST-tag at N-terminal.

**Species** Human

**Source** Wheat Germ

**Description** This gene encodes an enzyme that functions in the final steps in the biosynthesis of CoQ (ubiquinone), a redox carrier in the mitochondrial respiratory chain and a lipid-soluble antioxidant. This enzyme, which is part of the coenzyme Q10 pathway, catalyzes the prenylation of parahydroxybenzoate with an all-trans polyprenyl group. Mutations in this gene cause coenzyme Q10 deficiency, a mitochondrial encephalomyopathy, and also COQ2 nephropathy, an inherited form of mitochondriopathy with primary renal involvement. [provided by RefSeq, Oct 2009]

**Molecular Mass** 66.9 kDa

**AA Sequence**

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MLGSRAAGFARGLRALALAWLPGWRGRSFALARAAGAPHGGDLQPPACPEPRGR
QLSLSAAAVVDSAPRPLQPYLRMLRDLKPIGTWLLYLPCTWSIGLAAEPGCFPDWY
MLSLFGTGAILMRGAGCTINDMWDQDYDKKVRTANRPIAAGDISTFQSFVFLGGQL
TLALGVLLCLNYYISIALGAGSLLLVIYPLMKRISYWPQLALGLTFNWGALLGWSAIGK
SCDPSVCLPLYFSGVMWTLIYDTIYAHQDKRDDVLIGLKSTALRFGENTKPWLSGFS
VAMLGALSLVGVNSGQTAPYYAALGAVGAHLTHQIYTLDIHRPEDCWNKFISNRTL
LIVFLGIVLGNLWKEKKTDKTKKGIENKIEN
    
```

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

## GENE INFORMATION

<b>Gene Name</b>	COQ2 coenzyme Q2 homolog, prenyltransferase (yeast) [ Homo sapiens ]
<b>Official Symbol</b>	COQ2
<b>Synonyms</b>	COQ2; coenzyme Q2 homolog, prenyltransferase (yeast); 4-hydroxybenzoate polyprenyltransferase, mitochondrial; 4 hydroxybenzoate polyprenyltransferase; CL640; FLJ26072; hCOQ2; COQ2 homolog; PHB:polyprenyltransferase; para-hydroxybenzoate-polyprenyltransferase, mitochondrial; para-hydroxybenzoate--polyprenyltransferase, mitochondrial; FLJ13014;
<b>Gene ID</b>	27235
<b>mRNA Refseq</b>	NM_015697
<b>Protein Refseq</b>	NP_056512
<b>MIM</b>	609825

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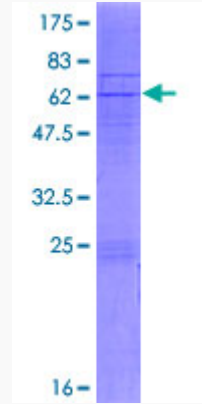
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UniProt ID

Q96H96

Quality Control

Testing:



12.5% SDS-PAGE Stained with Coomassie Blue.

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