

Recombinant Full Length Human COQ2 Protein, GST-tagged

Cat. No. COQ2-1973HF **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	In Vitro Cell Free System
ProteinLength	371 amino acids
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	MLGSRAAGFARGLRALALAWLPGWRGRSFALARAAGAPHGGDLQPPACPEPRGR QLSLSAAAVVDSAPRPLQPYLRMLRDKPIGTWLLYLPCTWSIGLAAEPGCFPDWY MLSLFGTGAILMRGAGCTINDMWDQDYDKKVTRTANRPIAAGDISTFQSFVFLGGQL TLALGVLLCLNYYISIALGAGSLLLITYPLMKRISYWPQLALGLTFNWGALLGWSAIGK SCDPSVCLPLYFSGVMWTLIYDTIYAHQDKRDDVLIGLKSTALRFGENTKPWLSGFS VAMLGALSLVGVNSGQTAPYYAALGAVGAHLTHQIYTLDIHRPEDCWNKFISNRTL

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LIVFLGIVLGNLWKEKKTDKTKKGIENKIEN

Applications

Enzyme-linked Immunoabsorbent Assay
Western Blot (Recombinant protein)
Antibody Production
Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name

COQ2 coenzyme Q2 homolog, prenyltransferase (yeast) [Homo sapiens]

Official Symbol

COQ2

Synonyms

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

Gene ID

27235

mRNA Refseq

NM_015697

Protein Refseq

NP_056512

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MIM	609825
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UniProt ID	Q96H96
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