

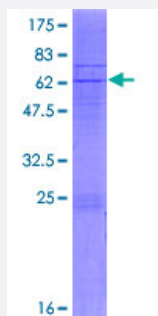
Full-Length

COQ2 (Human) Recombinant Protein (P01)

Catalog # H00027235-P01

Size 10 ug, 25 ug

Applications



Specification

Product Description

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

Sequence

MLGSRAAGFARGLRALALAWLPGWRGRSFALARAAGAPHGGDLQPPACPEPRGRQLSLSAAA
VVD SAPRPLQPYLRMLRDKPIGTWLLYLPCTWSIGLAAEPGCFPDWYMLSLFGTGALMRGAGC
TINDMWDQDYDKKVTRTANRPIAAGDISTFQSFVFLGGQLTALGVLLCLNYYSIALGAGSLLLVITY
PLMKRISYWQLALGLTFNWGALLGWSAIKGSCDPSVCLPLYFSGVMWTLTYDTYAHQDKRDDVL
IGLKSTALRFGENTKPWLSGFSVAMLGALSLVGVNSGQTAPYYAALGAVGAHLTHQIYTLDIHRPE
DCWNKFISNRTLGLIVFLGVLGNLWKEKTKDKTKKGIENKIEN

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

66.9

Interspecies Antigen Sequence

Mouse (81); Rat (80)

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer

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

Storage Instruction

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

Note

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

Applications

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

Gene Info — COQ2

Entrez GeneID[27235](#)**GeneBank Accession#**[BC008804.2](#)**Protein Accession#**[AAH08804.1](#)**Gene Name**

COQ2

Gene Alias

CL640, FLJ26072

Gene Description

coenzyme Q2 homolog, prenyltransferase (yeast)

Omim ID[607426 609825](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

CoQ (ubiquinone) serves as a redox carrier in the mitochondrial respiratory chain and is a lipid-soluble antioxidant. COQ2, or parahydroxybenzoate-polyprenyltransferase (EC 2.5.1.39), catalyzes one of the final reactions in the biosynthesis of CoQ, the prenylation of parahydroxybenzoate with an all-trans polyprenyl group (Forsgren et al., 2004 [PubMed 15153069]).[supplied by OMIM]

Other Designations

para-hydroxybenzoate-polyprenyltransferase, mitochondrial

Pathway

- [Ubiquinone and other terpenoid-quinone biosynthesis](#)

Disease

- [Disease Progression](#)
- [Kidney Failure](#)
- [Nephrotic Syndrome](#)