

Recombinant Full Length Human COQ6 Protein, GST-tagged

Cat. No. COQ6-1977HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human COQ6 full-length ORF (AAH14181, 1 a.a. - 468 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	468 amino acids
Description	<p>The protein encoded by this gene belongs to the ubiH/COQ6 family. It is an evolutionarily conserved monooxygenase required for the biosynthesis of coenzyme Q10 (or ubiquinone), which is an essential component of the mitochondrial electron transport chain, and one of the most potent lipophilic antioxidants implicated in the protection of cell damage by reactive oxygen species. Knockdown of this gene in mouse and zebrafish results in decreased growth due to increased apoptosis. Mutations in this gene are associated with autosomal recessive coenzyme Q10 deficiency-6 (COQ10D6), which manifests as nephrotic syndrome with sensorineural deafness. Alternatively spliced transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Jun 2012]</p>
Molecular Mass	77.22 kDa
AA Sequence	<p>MAARLVSRGAVRAAPHSGPLVSWRRWSGASTDTVYDVVVSGGGLVGAAMACAL GYDIHFHDKKILLLEAGPKKVLEKLSETYSNRVSSISPGSATLLSSFGAWDHICNMRY RAFRRMQVWDACSEALIMFDKDNLDDMGYIVENDVIMHALTKQLEAVSDRVTVLYR</p>

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SKAIRYTWPCPFPMADSSPWVHITLGDGSTFQTKLLIGADGHNSGVRQAVGIQNVSWNYDQSAVVATLHLSEATENNVAVWQRFLPSGPIALLPLSDTLSSLVWSTSHEHAAELVSMDEEKFVDAVNSAFWSDADHTDFIDTAGAMLQYAVSLLKPTKVSARQLPPSVARVDAKSRVLFPLGLGHAAEYVRPRVALIGDAAHRVHPLAGQGVMGMFGDISSLAHHLSTAAFNGKDLGSVSHLTGYETERQRHNTALLAATDLLKRLYSTSASPLVLLRTWGLQATNAVSPLEQIMAFASK

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	COQ6 coenzyme Q6, monooxygenase [Homo sapiens (human)]
Official Symbol	COQ6
Synonyms	COQ6; coenzyme Q6, monooxygenase; Coenzyme Q6, Monooxygenase; Coenzyme Q10 Monooxygenase 6; Ubiquinone Biosynthesis Monooxygenase COQ6, Mitochondrial; Coenzyme Q6 Homolog, Monooxygenase (S. Cerevisiae); Coenzyme Q6 Homolog, Monooxygenase (Yeast); Coenzyme Q6 Homolog, Monooxygenase; Coenzyme Q6 Homolog (Yeast); Coenzyme Q6 Monooxygenase; EC 1.14.13.-; EC 1.14.13; COQ10D6; CGI-10; CGI10; ubiquinone biosynthesis monooxygenase COQ6, mitochondrial; coenzyme Q10 monooxygenase 6; coenzyme Q6 homolog,

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monooxygenase

Gene ID

51004

mRNA Refseq

NM_182476

Protein Refseq


NP_872282

MIM

614647

UniProt ID

Q9Y2Z9

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