

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	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]
Molecular Mass	77.22 kDa
AA Sequence	MAARLVSRGAVRAAPHSGPLVSWRRWSGASTDTVYDVVVSGGGLVGAAMACAL GYDIHFHDKKILLLEAGPKKVLEKLSETYSNRVSSISPGSATLLSSFGAWDHICNMRY RAFRRMQVWDACSEALIMFDKDNLDDMGYIVENDVIMHALTKQLEAVSDRVTVLRY

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SKAIRYTWPCPFPMADSSPWVHITLGDGSTFQTKLLIGADGHNSGVRQAVGIQNV
 WNYDQSAVVATLHLSEATENNVAVWQRFLPSGPIALLPLSDLSSLVWSTSHEHAAEL
 VSMDEEKFVDAVNSAFWSDADHTDFIDTAGAMLQYAVSLLKPTKVSARQLPPSVAR
 VDAKSRVLFPLGLGHAAEYVRPRVALIGDAAHRVHPLAGQGVMGMFGDISLAHHL
 STAAFNGKDLGSVSHLTGYETERQRHNTALLAATDLLKRLYSTSASPLVLLRTWGLQ
 ATNAVSPLEQIMAFASK

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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