

Recombinant Human COQ6 Protein, GST-tagged

Cat. No. COQ6-1719H **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	Wheat Germ
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	MAARLVSRGAVRAAPHSGPLVSWRRWSGASTDTVYDVVSGGGLVGAAMACAL GYDIHFHDKKILLLEAGPKKVLEKLSETYSNRVSSISPGSATLLSSFGAWDHICNMRY RAFRRMQVWDACSEALIMFDKDNLDDMGYIVENDVIMHALTKQLEAVSDRVTVLRY SKAIRYTWPCPFPMADSSPWVHITLGDGSTFQTKLLIGADGHNSGVRQAVGIQNV

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WNYDQSAVVATLHLSEATENNVAVQRFPLPSGPIALLPLSDLSSLVWSTSHEHAAEL
VSMDEEKFVDAVNSAFWSDADHTDFIDTAGAMLQYAVSLLKPTKVSARQLPPSVAR
VDAKSRVLFPLGLGHAAEYVRPRVALIGDAAHRVHPLAGQGVMGMFGDISSLAHHL
STAAFNGKDLGVSVSLTGYETERQRHNTALLAATDLLKRLYSTSASPLVLLRTWGLQ
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

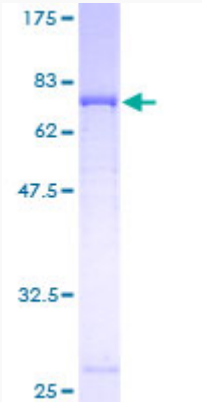
Synonyms

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, monooxygenase

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Gene ID	51004
mRNA Refseq	NM_182476
Protein Refseq	NP_872282
MIM	614647
UniProt ID	Q9Y2Z9
Quality Control Testing:	 12.5% SDS-PAGE Stained with Coomassie Blue.