

Recombinant Human COQ6 Protein, His-tagged

Cat. No. COQ6-493H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human COQ6, transcript variant 1, fused with His tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
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.
Form	25mM Tris, pH8.0, 150 mM NaCl, 10% glycerol, 1 % Sarkosyl.
Molecular Mass	50.7 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration	>50 ug/mL as determined by microplate BCA method

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GENE INFORMATION

Gene Name	COQ6 coenzyme Q6, monooxygenase [Homo sapiens (human)]
Official Symbol	COQ6
Synonyms	CGI10; CGI-10; COQ10D6; COQ6;
Gene ID	51004
mRNA Refseq	NM_182476
Protein Refseq	NP_872282
MIM	614647
UniProt ID	Q9Y2Z9

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