

Recombinant Full Length Human COQ3 Protein, GST-tagged

Cat. No. COQ3-1974HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human COQ3 full-length ORF (AAH63463.1, 1 a.a. - 369 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	369 amino acids
Description	Ubiquinone, also known as coenzyme Q, or Q, is a critical component of the electron transport pathways of both eukaryotes and prokaryotes (Jonassen and Clarke, 2000 [PubMed 10777520]). This lipid consists of a hydrophobic isoprenoid tail and a quinone head group. The tail varies in length depending on the organism, but its purpose is to anchor coenzyme Q to the membrane. The quinone head group is responsible for the activity of coenzyme Q in the respiratory chain. The <i>S. cerevisiae</i> COQ3 gene encodes an O-methyltransferase required for 2 steps in the biosynthetic pathway of coenzyme Q. This enzyme methylates an early coenzyme Q intermediate, 3,4-dihydroxy-5-polyprenylbenzoic acid, as well as the final intermediate in the pathway, converting demethyl-ubiquinone to coenzyme Q. The COQ3 gene product is also capable of methylating the distinct prokaryotic early intermediate 2-hydroxy-6-polyprenyl phenol.[supplied by OMIM, Mar 2008]
Molecular Mass	67.4 kDa
AA Sequence	MWSGRKLGSSGGWFLRVLGPGGCNTKAARPLISSAVYVKNQLSGTLQIKPGVFNEY

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RTIWFKSYRTIFSCLNRIKSFYRYPWARLYSTSQTTVDSGEVKTFLALAHKWWDEQGV
YAPLHSMNDLRVPFIRDNLLKTIPNHQPGKPLLGMKILDVGC GGGLL TEPLGRLGAS
VIGIDPVDENIKTAQCHKSFDPVLDKRIEYRVCSLEEIVEETAETFD AVVASEVVEHVI
DLETFLQCCCQVLKPGGSLFITTINKTQLSYALGIVFSEQIAGIVPKGTHTWK FVSP
TLESILESNGLSVQTVVGMLYNPFSGYWHWSEN TSLNYAAHAVKSRVQEHPASAEF
VLKGETEELQANACTNPAVHEKLKK

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

COQ3 coenzyme Q3 homolog, methyltransferase (*S. cerevisiae*) [*Homo sapiens*]

Official Symbol

COQ3

Synonyms

COQ3; coenzyme Q3 homolog, methyltransferase (*S. cerevisiae*); coenzyme Q3 homolog, methyltransferase (yeast); hexaprenyldihydroxybenzoate methyltransferase, mitochondrial; bA9819.1; polyprenyldihydroxybenzoate methyltransferase; DHHB-MT; DHHB-MTase; DHHB methyltransferase; methyltransferase COQ3; 2-polyprenyl-6-hydroxyphenyl methylase; 3-demethylubiquinone-10 3-methyltransferase; dihydroxyhexaprenylbenzoate methyltransferase; 3,4-dihydroxy-5-hexaprenylbenzoate methyltransferase;

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DHHBMT; DHHBMTASE; UG0215E05

Gene ID 51805**mRNA Refseq** NM_017421**Protein Refseq** NP_059117**MIM** 605196**UniProt ID** Q9NZJ6 Tel: 1-631-559-9269 1-516-512-3133 Email: info@creative-biomart.com  Fax: 1-631-938-8127 45-1 Ramsey Road, Shirley, NY 11967, USA