Recombinant Human COQ3 Protein, GST-tagged

Cat. No. COQ3-1715H **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	Wheat Germ
Description	Ubiquinone, also known as coenzyme Q, or Q, is a critical component of the electron t ransport pathways of both eukaryotes and prokaryotes (Jonassen and Clarke, 2000 [PubMed 10777520]). This lipid consists of a hydrophobic isoprenoid tail and a quinon e head group. The tail varies in length depending on the organism, but its purpose is t o anchor coenzyme Q to the membrane. The quinone head group is responsible for t he activity of coenzyme Q in the respiratory chain. The S. cerevisiae COQ3 gene enc odes an O-methyltransferase required for 2 steps in the biosynthetic pathway of coen zyme 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 met hylating the distinct prokaryotic early intermediate 2-hydroxy-6-polyprenyl phenol.[sup plied by OMIM, Mar 2008]
Molecular Mass	67.4 kDa
AA Sequence	MWSGRKLGSSGGWFLRVLGPGGCNTKAARPLISSAVYVKNQLSGTLQIKPGVFNEY RTIWFKSYRTIFSCLNRIKSFRYPWARLYSTSQTTVDSGEVKTFLALAHKWWDEQGV

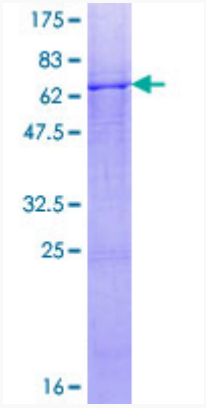
Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	YAPLHSMNDLRVPFIRDNLLKTIPNHQPGKPLLGMKILDVGCGGGLLTEPLGRLGAS VIGIDPVDENIKTAQCHKSFDPVLDKRIEYRVCSLEEIVEETAETFDAVVASEVVEHVI DLETFLQCCCQVLKPGGSLFITTINKTQLSYALGIVFSEQIAGIVPKGTHTWEKFVSPE TLESILESNGLSVQTVVGMLYNPFSGYWHWSENTSLNYAAHAVKSRVQEHPASAEF 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; DHHBMT; DHHBMTASE; UG0215E05;

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Gene ID	51805
mRNA Refseq	NM_017421
Protein Refseq	NP_059117
MIM	605196
UniProt ID	Q9NZJ6
Quality Control Testing:	 12.5% SDS-PAGE Stained with Coomassie Blue.

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