Recombinant Human COQ3 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. COQ3-5716H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	COQ3 MS Standard C13 and N15-labeled recombinant protein (NP_059117) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	Ubiquinone, also known as coenzyme Q, or Q, is a critical component of the electron t ransport pathways of both eukaryotes and prokaryotes. This lipid consists of a hydrop hobic 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 quinon e head group is responsible for the activity of coenzyme Q in the respiratory chain. Th e S. cerevisiae COQ3 gene encodes an O-methyltransferase required for 2 steps in t he biosynthetic pathway of coenzyme Q. This enzyme methylates an early coenzyme Q intermediate, 3,4-dihydroxy-5-polyprenylbenzoic acid, as well as the final intermedi ate in the pathway, converting demethyl-ubiquinone to coenzyme Q. The COQ3 gene product is also capable of methylating the distinct prokaryotic early intermediate 2-hyd roxy-6-polyprenyl phenol.
Molecular Mass	41 kDa
AA Sequence	MWSGRKLGSSGGWFLRVLGPGGCNTKAARPLISSAVYVKNQLSGTLQIKPGVFNEY RTIWFKSYRTIFSCLNRIKSFRYPWARLYSTSQTTVDSGEVKTFLALAHKWWDEQGV

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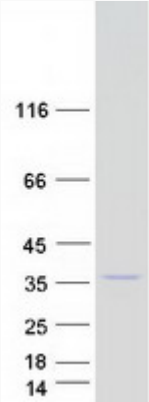
	YAPLHSMNDLRVPFIRDNLLKTIPNHQPGKPLLGMKILDVGCGGGLLTEPLGRLGAS VIGIDPVDENIKTAQCHKSFDPVLDKRIEYRVCSLEEIVEETAETFDAVVASEVVEHVI DLETFLQCCCQVLKPGGSLFITTINKTQLSYALGIVFSEQIAGIVPKGTHTWEKFVSPE TLESILESNGLSVQTVVGMLYNPFSGYWHWSENTSLNYAAHAVKSRVQEHPASAEF VLKGETEELQANACTNPAVHEKLKKTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	COQ3 coenzyme Q3, methyltransferase [Homo sapiens (human)]
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;

Gene ID	51805
mRNA Refseq	NM_017421
Protein Refseq	NP_059117
MIM	605196
UniProt ID	Q9NZJ6
SDS-PAGE	

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