

Product datasheet for PH309576

OriGene Technologies, Inc.

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COQ3 (NM_017421) Human Mass Spec Standard

Product data:

Product Type: Mass Spec Standards

Description: COQ3 MS Standard C13 and N15-labeled recombinant protein (NP_059117)

Species: Human Expression Host: HEK293

Expression cDNA Clone

one RC209576

or AA Sequence: Predicted MW:

41 kDa

Protein Sequence: >RC209576 protein sequence

Red=Cloning site Green=Tags(s)

MWSGRKLGSSGGWFLRVLGPGGCNTKAARPLISSAVYVKNQLSGTLQIKPGVFNEYRTIWFKSYRTIFSC LNRIKSFRYPWARLYSTSQTTVDSGEVKTFLALAHKWWDEQGVYAPLHSMNDLRVPFIRDNLLKTIPNHQ PGKPLLGMKILDVGCGGGLLTEPLGRLGASVIGIDPVDENIKTAQCHKSFDPVLDKRIEYRVCSLEEIVE ETAETFDAVVASEVVEHVIDLETFLQCCCQVLKPGGSLFITTINKTQLSYALGIVFSEQIAGIVPKGTHT WEKFVSPETLESILESNGLSVQTVVGMLYNPFSGYWHWSENTSLNYAAHAVKSRVQEHPASAEFVLKGET

EELQANACTNPAVHEKLKK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining

Concentration: >0.05 μg/μL as determined by microplate BCA method

Labeling Method: Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3

Storage: Store at -80°C. Avoid repeated freeze-thaw cycles.

Stability: Stable for 3 months from receipt of products under proper storage and handling conditions.

RefSeq: NP 059117

RefSeq Size: 1265 RefSeq ORF: 1107

Synonyms: bA9819.1; DHHBMT; DHHBMTASE; UG0215E05

Locus ID: 51805



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UniProt ID: Q9NZJ6

Cytogenetics: 6q16.2

Summary: Ubiquinone, also known as coenzyme Q, or Q, is a critical component of the electron

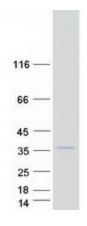
transport pathways of both eukaryotes and prokaryotes (Jonassen and Clarke, 2000 [PubMed 10777520]). This lipid consists of a hydrophobic isoprenoid tail and a quinone head group. The tail varies in length depending on the organism, but its purpose is to anchor coenzyme Q to the membrane. The quinone head group is responsible for the activity of coenzyme Q in the respiratory chain. The S. cerevisiae 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]

Protein Families: Druggable Genome

Protein Pathways: Metabolic pathways, Ubiquinone and other terpenoid-quinone biosynthesis

Product images:



Coomassie blue staining of purified COQ3 protein (Cat# [TP309576]). The protein was produced from HEK293T cells transfected with COQ3 cDNA clone (Cat# [RC209576]) using MegaTran 2.0 (Cat# [TT210002]).