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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Datasheet

COQ3 (Human) Recombinant Protein (P01)

Catalog Number: H00051805-P01

Regulation Status: For research use only (RUO)

Product Description: Human COQ3 full-length ORF (AAH63463.1, 1 a.a. - 369 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence:

MWSGRKLGSSTGGWFLRVLGPGGCNTKAARPLISSAV
YVKNQLSGTLQIKPGVFNEYRTIWFKSYRTIFSLNRIK
SFRYPWARLYSTSQTTVDSGEVKTFLALAHKWWDEQ
GVYAPLHSMNDRVPPFIRDNLLKTIPNHQPGKPLLGMK
ILDVCGGGLLTEPLGRLGASVIGIDPVDENIKTAQCHK
SFDPVLDKRIEYRVCSLEEIVEETAETFDVAVASEVVEH
VIDLETFLQCCCQVLKPGGSLFITTINKTQLSYALGIVFS
EQIAGIVPKGHTWEEKFVSPETLESILENSVQTVV
GMLYNPFGSYWHWSENLSLNYAAHAVKSRVQEHPPAS
AEFVLKGETEELQANACTNPAVHEKLLK

Host: Wheat Germ (in vitro)

Theoretical MW (kDa): 67.4

Interspecies Antigen Sequence: Mouse (73); Rat (81)

Applications: AP, Array, ELISA, WB-Re
(See our web site product page for detailed applications information)

Protocols: See our web site at
<http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

Preparation Method: [in vitro wheat germ expression system](#)

Purification: Glutathione Sepharose 4 Fast Flow

Storage Buffer: 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction: Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Entrez GeneID: 51805

Gene Symbol: COQ3

Gene Alias: UG0215E05, bA9819.1

Gene 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]