

# Hexaprenyldihydroxybenzoate methyltransferase, mitochondrial (COQ3), Recombinant Protein

Cat RP01379

Size 0.02 mg (E-Coli)/ 0.02 mg (Yeast)/ 0.1 mg (E-Coli)/ 0.1 mg (Yeast)/ 0.02 mg (Baculovirus)/ 0.02 mg (Mammalian-Cell)/ 0.1

mg (Baculovirus)/ 1 mg (E-Coli)/ 1 mg (Yeast)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)  
Arabidopsis thaliana (Mouse-ear cress)

## Full Product Name

Recombinant Arabidopsis thaliana Hexaprenyldihydroxybenzoate methyltransferase, mitochondrial (COQ3)

## Product Gene Name

COQ3 recombinant protein

## Purity

Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)

## Sequence

SAASFSSSHP KIQTLEGKAS NKSRRSTSSTT SLNEDELAKF SAIADTWWHS EGPFKPLHQM NPTRLAFIRS  
TLCRHFSKDP SSAKPFEGLK FIDIGCGGGL LSEPLARMGA TVTGVDVAVDK NVKIARLHAD MDPVTSTIEY  
LCTTAEKLAD EGRKFDAVLS LEVIEHVANP AEFCKLSLSAL TIPNGATVLS TINRTMRAYA STIVGAEYIL  
RWLPKGTHQW SSFVTPEEMS MILQRASVDV KEIAGFVYNP ITGRWLLSDD ISVNYIAYGT KRKDLGDI

## Sequence Positions

45-322, Full length protein

## Format

Lyophilized or liquid (Format to be determined during the manufacturing process)

## Host

E Coli or Yeast or Baculovirus or Mammalian Cell

## Molecular Weight

35,332 Da

## Storage

Store at -20°C. For long-term storage, store at -20°C or -80°C. Store working aliquots at 4°C for up to one week. Repeated freezing and thawing is not recommended.

## NCBI Accession #

NP\_001324991.1

## NCBI GI #

1063705380

## NCBI GenBank Nucleotide #

NM\_001336307.1

## NCBI GeneID

817642

## NCBI Official Full Name

coenzyme Q 3

**FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY**

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Size 0.02 mg (E-Coli)/ 0.02 mg (Yeast)/ 0.1 mg (E-Coli)/ 0.1 mg (Yeast)/ 0.02 mg (Baculovirus)/ 0.02 mg (Mammalian-Cell)/ 0.1

mg (Baculovirus)/ 1 mg (E-Coli)/ 1 mg (Yeast)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)

## NCBI Official Symbol

COQ3

## NCBI Official Synonym Symbols

ATCOQ3; coenzyme Q 3; EMB3002; embryo defective 3002; F7F1.13; F7F1\_13

## NCBI Protein Information

coenzyme Q 3

## NCBI Summary

The enzyme encoded by this gene has been shown to complement the *Saccharomyces cerevisiae* *coq3* mutation and, therefore, to have hexaprenyldihydroxybenzoate methyltransferase activity. It is however likely that, in *Arabidopsis*, the enzyme catalyzes the methylation of nonaprenyldihydroxybenzoate as it is the prevalent polyprenoid in this plant species. The enzyme is a mitochondrial-localized methyltransferase involved in ubiquinone biosynthesis.

## UniProt Gene Name

COQ3

## UniProt Protein Name

Ubiquinone biosynthesis O-methyltransferase, mitochondrial

## UniProt Synonym Protein Names

3-demethylubiquinol 3-O-methyltransferase

## UniProt Primary Accession #

O49354

## UniProt Secondary Accession #

O80857; Q94AS6

## UniProt Related Accession #

O49354

## UniProt Comments

O-methyltransferase that catalyzes the 2 O-methylation steps in the ubiquinone biosynthetic pathway.

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