# 2-Nonaprenyl-3-Methyl-6-Methoxy-1,4-Benzoquinol Hydroxylase (coq7) Pseudomonas Syringae Pv. Tomato Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | 2-nonaprenyl-3-methyl-6-methoxy-1,4-benzoquinol hydroxylase (coq7), Recombinant Protein |
| **Full Product Name** | Recombinant Pseudomonas syringae pv. tomato 2-nonaprenyl-3-methyl-6-methoxy-1,4-benzoquinol hydroxylase (coq7) |
| **Product Gene Name** | coq7 recombinant protein |
| **Product Synonym Gene Name** | coq7 |
| **Sequence** | MATERQYSPI DRLLLQADSA MRTLLPSSAH SRRPSPAIVQ PDHKMSDVDT RHVAGLMRIN HTGEVCAQAL YQGQALTAKL PKVRKAMEHA AEEEIDHLVW CEQRIHQLGS HTSVLNPLFY GLSFGIGAVA GVISDRVSLG FVAATEDQVC KHLGEHLEQL PIEDGKSRAI LEQMLSDEEH HAESALEAGG FRFPAPVKFG MGVLAKVMTK STYRI |
| **Host** | E Coli or Yeast or Baculovirus or Mammalian Cell |
| **Form/Format** | Lyophilized or liquid (Format to be determined during the manufacturing process) |
| **Purity/Purification** | Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific) |
| **Preparation and Storage** | Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended. |
| **Molecular Weight** | 23,656 Da |
| **Sequence Positions** | 1-215, Full length protein |
| **Tag Information** | This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information. |
| **Sterility** | Sterile filter available upon request. |
| **Endotoxin** | Low endotoxin available upon request. |
| **3D Structure** | ModBase 3D Structure for Q889Z8 |
| **Species** | Pseudomonas syringae pv. tomato (strain DC3000) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for coq7 recombinant protein** | MBS1337498 is a recombinant protein targeting coq7. Also known as Recombinant Pseudomonas syringae pv. tomato 2-nonaprenyl-3-methyl-6-methoxy-1,4-benzoquinol hydroxylase (coq7). Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |
| **Other Notes** | Small volumes of coq7 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for coq7. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 28867827 |
| **NCBI GeneID** | 1182210 |
| **NCBI Accession #** | NP_790446.1 |

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| **UniProt Primary Accession #** | Q889Z8 |
| **UniProt Related Accession #** | Q889Z8 |
| **GenBank Nucleotide #** | NC_004578.1 |
| **NCBI Official Full Name** | hypothetical protein PSPTO_0599 |
| **NCBI Official Symbol** | PSPTO_0599 |
| **UniProt Protein Name** | 2-nonaprenyl-3-methyl-6-methoxy-1,4-benzoquinol hydroxylase |
| **UniProt Synonym Protein Names** | 5-demethoxyubiquinone hydroxylase |
| **Protein Family** | 2-nonaprenyl-3-methyl-6-methoxy-1,4-benzoquinol hydroxylase |
| **UniProt Gene Name** | coq7 |
| **UniProt Synonym Gene Names** | DMQ hydroxylase |
| **NCBI Protein Information** | hypothetical protein |
| **UniProt Comments for coq7** | Oxygenase that introduces the hydroxyl group at carbon five of 2-nonaprenyl-3-methyl-6-methoxy-1,4-benzoquinol resulting in the formation of 2-nonaprenyl-3-methyl-5-hydroxy-6-methoxy-1,4-benzoquinol. |
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