# Coproporphyrinogen-III Oxidase, Aerobic (hemF) Vibrio Cholerae Serotype O1 Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | Coproporphyrinogen-III oxidase, aerobic (hemF), Recombinant Protein |
| **Full Product Name** | Recombinant Vibrio cholerae serotype O1 Coproporphyrinogen-III oxidase, aerobic (hemF) |
| **Product Gene Name** | hemF recombinant protein |
| **Product Synonym Gene Name** | hemF |
| **Sequence** | MESIVDKQAV KHFLLQLQDK ICQQLEATDG QAQFIEDAWQ REPGEKLGGG GRTRVMREGA VFEQGGVNFS HVFGEQMPAS ATAHRPELAG RRFEAMGVSL VMHPKNPYVP TSHANVRFFI AEKEGEAPIW WFGGGFDLTP FYPFVEDGQH WHQTAKNICA PFGSEIYNEH KAWCDRYFYL PHRNETRGIG GLFFDDLNEW SFEQCFAYMQ AVGEGYTQAY VPIVEKRKNT PFTERERQFQ LYRRGRYVEF NLVLDRGTLF GLQTGGRTES ILMSMPPLAR WEYAYQPQAG TPEAKLSEFL VPREW |
| **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** | 35,126 Da |
| **Sequence Positions** | 1-305, Full length |
| **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 Q9KVT4 |
| **Species** | Vibrio cholerae serotype O1 (strain 39315 / El Tor Inaba N16961) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for hemF recombinant protein** | MBS1319292 is a recombinant protein targeting hemF. Also known as Recombinant Vibrio cholerae serotype O1 Coproporphyrinogen-III oxidase, aerobic (hemF). Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |
| **Other Notes** | Small volumes of hemF 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 hemF. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 15640087 |
| **NCBI GeneID** | 2614439 |
| **NCBI Accession #** | NP_229714.1 |
| **UniProt Primary Accession #** | Q9KVT4 |

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| **UniProt Related Accession #** | Q9KVT4 |
| **GenBank Nucleotide #** | NC_002505.1 |
| **NCBI Official Full Name** | coproporphyrinogen III oxidase |
| **NCBI Official Symbol** | VC0055 |
| **UniProt Protein Name** | Oxygen-dependent coproporphyrinogen-III oxidase |
| **UniProt Gene Name** | hemF |
| **UniProt Synonym Gene Names** | CPO; Coprogen oxidase; Coproporphyrinogenase |
| **NCBI Protein Information** | coproporphyrinogen III oxidase |
| **UniProt Comments for hemF** | Involved in the heme biosynthesis. Catalyzes the aerobic oxidative decarboxylation of propionate groups of rings A and B of coproporphyrinogen-III to yield the vinyl groups in protoporphyrinogen-IX. |
| **Precautions** | All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines. |
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