# Coproporphyrinogen-III Oxidase, Aerobic (hemF) Rhizobium Meliloti Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | Coproporphyrinogen-III oxidase, aerobic (hemF), Recombinant Protein |
| **Full Product Name** | Recombinant Rhizobium meliloti Coproporphyrinogen-III oxidase, aerobic (hemF) |
| **Product Gene Name** | hemF recombinant protein |
| **Product Synonym Gene Name** | hemF |
| **Sequence** | MERPQLPQGL PADIEDKKAA AKAWFESLRD TICAAFEAIE DELTGPLSDR PAGRFVAKDW LREEGAGGGG RMSMMEGRVF EKVGVHTSTV FGEFSPEFRE QIPGASEDPR FWASGISLIA HPVNPNVPAV HMNTRMVVTT SNWFGGGADL TPVLDRRRIM TDPDTVLFHR AMEIACNRHP VADHAKFKQW CDEYFYLKHR NEPRGTGGIF YDWLRSAEEL GGWDADFAFT RDVGKAFALV YPRIVRTNFN KPWTEQDRNE QLVRRGRYVE FNLLYDRGTI FGLKTGGNVE SILSSLPPLV RWP |
| **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** | 34,322 Da |
| **Sequence Positions** | 1-303, 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 Q92PD8 |
| **Species** | Rhizobium meliloti (strain 1021) (Ensifer meliloti) (Sinorhizobium meliloti) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for hemF recombinant protein** | MBS1379584 is a recombinant protein targeting hemF. Also known as Recombinant Rhizobium meliloti 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 #** | 15965580 |
| **NCBI GeneID** | 1233492 |
| **NCBI Accession #** | NP_385933.1 |
| **UniProt Primary Accession #** | Q92PD8 |
| **UniProt Related Accession #** | Q92PD8 |

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|---|---|
| **GenBank Nucleotide #** | NC_003047.1 |
| **NCBI Official Full Name** | coproporphyrinogen III oxidase |
| **NCBI Official Symbol** | hemF |
| **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. |
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