Coproporphyrinogen-III Oxidase, Aerobic (hemF) Synechococcus Sp. Recombinant Protein

PRODUCT OVERVIEW

Product Name	Coproporphyrinogen-III oxidase, aerobic (hemF), Recombinant Protein
Full Product Name	Recombinant Synechococcus sp. Coproporphyrinogen-III oxidase, aerobic (hemF)
Product Gene Name	hemF recombinant protein
Product Synonym Gene Name	hemF
Sequence	MTVATPNLTT VPVPPSDSRE RVKQFMQTLQ DEICAGLEAL DGGGQFREDS WERPEGGGGR SRVIREGNVF EQGGVNFSEV WGEKLPPSIL AQYPEAAGHG YFATGTSMVL HPRNPYIPTV HLNYRYFEAG PVWWFGGGAD LTPYYPFAED AKHFHSSFKA ACDRHYPQFY DVFKLWCDEY FFLKHRGETR GIGGIFFDYQ DGRGDLYNKG PAPSGPAGQK AAEVGIVSDL NWEKLFAFAQ DCGRTFLPAY SPIVERRKDT PWGDRERQFQ LYRRGRYVEF NLVYDRGTIF GLQTNGRTES ILMSLPPLVR WEYMYQPEAG SREQELYDVF LKPQDWVNWP TA
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	39,098 Da
Sequence Positions	1-342, 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 Q5N3S5
Species	Synechococcus sp. (strain 27144 / PCC 6301 / SAUG 1402/1) (Anacystis nidulans)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for hemF recombinant protein	MBS1355021 is a recombinant protein targeting hemF. Also known as Recombinant Synechococcus sp. 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.

NCBI GI #	499562384
NCBI Accession #	WP_011243167.1
UniProt Primary Accession #	Q5N3S5
GenBank Nucleotide #	WP_011243167.1
NCBI Official Full Name	MULTISPECIES: coproporphyrinogen III oxidase

UniProt Protein Name	Oxygen-dependent coproporphyrinogen-III oxidase
UniProt Gene Name	hemF
UniProt Synonym Gene Names	CPO; Coprogen oxidase; Coproporphyrinogenase
UniProt Comments for hemF	Involved in the heme and chlorophyll 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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