Siroheme Synthase 1 (cysG1) Erwinia Carotovora Subsp. Atroseptica Recombinant Protein

PRODUCT OVERVIEW

Product Name	Siroheme synthase 1 (cysG1), Recombinant Protein
Full Product Name	Recombinant Erwinia carotovora subsp. atroseptica Siroheme synthase 1 (cysG1)
Product Gene Name	cysG1 recombinant protein
Product Synonym Gene Name	cysG1
Sequence	MNYLPIFADL RQRPVLVVGG GEVATRKIDL LQRAGAEVKI VALALAEPLA AQHQAGQVEW LAQSFTPELL SGVFLVIAAT DDAELNAAVF EAANQRHLLV NVVDDQPKCT FIFPSIVDRS PLVVAISSGG QAPVLARLLR EKLESLLPAS LGTMAEIAGS WRDRIKTRLH SMPARRRFWE RLFVGRFASL VSAGQLEQAE GELQQQLVNQ QDEQQLPAAA RGEVALVGAG PGDAGLLTLR GLQVMQQADV VLYDHLVSAD VLDLVRRDAE RICVGKRAST HSLPQGEINQ LLVKLAQEGK RVVRLKGGDP FIFGRGGEEL QAVAQAGITF QVVPGVTAAA GVTAYAGIPL THRDHAQSVI FITGHCRPDG DSLDWSTLAR GRQTLAIYMG TMKAAEISQQ LIAHGRSAQT PVAVISRGTR HDQQVQIGTL QELEHLARQA PTPALLVIGE VVDLHHQIAW FGQTTPTVPQ DSRPAVVNLA
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	51,737 Da
Sequence Positions	1-480, 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 Q6D1A4
Species	Erwinia carotovora subsp. atroseptica (Pectobacterium atrosepticum)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for cysG1 recombinant protein	MBS1341097 is a recombinant protein targeting cysG1. Also known as Recombinant Erwinia carotovora subsp. atroseptica Siroheme synthase 1 (cysG1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of cysG1 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 cysG1. It may not necessarily be applicable to this product.

NCBI GI #	499407580
NCBI Accession #	WP_011095047.1
UniProt Primary Accession #	Q6D1A4
GenBank Nucleotide #	WP_011095047.1

NCBI Official Full Name	siroheme synthase
UniProt Protein Name	Siroheme synthase 1
UniProt Synonym Protein Names	SUMT 1
Protein Family	Siroheme synthase
UniProt Gene Name	cysG1
UniProt Synonym Gene Names	Urogen III methylase 1; UROM 1
UniProt Comments for cysG1	Multifunctional enzyme that catalyzes the SAM-dependent methylations of uroporphyrinogen III at position C-2 and C-7 to form precorrin-2 via precorrin-1. Then it catalyzes the NAD-dependent ring dehydrogenation of precorrin-2 to yield sirohydrochlorin. Finally, it catalyzes the ferrochelation of sirohydrochlorin to yield siroheme.
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