Siroheme Synthase (cysG) Psychrobacter Arcticus Recombinant Protein

PRODUCT OVERVIEW

Product Name	Siroheme synthase (cysG), Recombinant Protein
Full Product Name	Recombinant Psychrobacter arcticus Siroheme synthase (cysG), partial
Product Gene Name	cysG recombinant protein
Product Synonym Gene Name	cysG
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	59,727 Da
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 Q4FSU1
Species	Psychrobacter arcticus (strain DSM 17307 / 273-4)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for cysG recombinant protein	MBS1338047 is a recombinant protein targeting cysG. Also known as Recombinant Psychrobacter arcticus Siroheme synthase (cysG), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of cysG 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 cysG. It may not necessarily be applicable to this product.

NCBI GI #	754124780
NCBI Accession #	WP_041757642.1
UniProt Primary Accession #	Q4FSU1
GenBank Nucleotide #	WP_041757642.1
NCBI Official Full Name	siroheme synthase
UniProt Protein Name	Siroheme synthase
UniProt Synonym Protein Names	SUMT
Protein Family	Siroheme synthase
UniProt Gene Name	cysG

UniProt Synonym Gene Names	Urogen III methylase; UROM
UniProt Comments for cysG	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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