Cobyrinic Acid A,c-Diamide Synthase (cobB) Synechococcus Sp. Recombinant Protein

PRODUCT OVERVIEW

Product Name	Cobyrinic acid A,C-diamide synthase (cobB), Recombinant Protein
Full Product Name	Recombinant Synechococcus sp. Cobyrinic acid A,C-diamide synthase (cobB)
Product Gene Name	cobB recombinant protein
Product Synonym Gene Name	cobB
Sequence	MALIIAGERS GVGKTTTTLT LLAALKARQA SVQSFKVGPD YIDPMFHRFV TGRDCRNLDP ILTDEDYVQH CFQQHSQTAD YTLVEGVMGL FDGLTGKTDT ASTAHIARIL NLPILLVLNC SSTARSIAAI AYGYQNFDSR LKIAGLVLNR VGSDRHLELL KDALEPLEIP ILGVLRRQDE IQIPDRHLGL IPTSELPHLQ SVIDRLAVLG QQCFDWNRLE PLLSNSDLNS TAFKSTTPSI SLKSSVPIAI ARDRAFNFYY ADNFDLLRAA GAELIEWSPL QDRQLPAGVQ GLYLGGGFPE VFAAELSDNL LARQAVQTAI TQGIPCYAEC GGLMYLRQHI IDFEQTQYPM VGAIAATAQM GSRLTLGYRE ATAQQASPLL QKGQVVWGHE FHRSSLREPI AQPLFQLQNF DGSLHYGEGY SQPNLHASYL HLHFGGKPWL IQNFLQACQQ ATALSR
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	50,345 Da
Sequence Positions	1-456, 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 Q5MZU1
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 cobB recombinant protein	MBS1376194 is a recombinant protein targeting cobB. Also known as Recombinant Synechococcus sp. Cobyrinic acid A,C-diamide synthase (cobB). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of cobB 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 cobB. It may not necessarily be applicable to this product.

NCBI GI #	499563766
NCBI Accession #	WP_011244549.1
UniProt Primary Accession #	Q5MZU1
GenBank Nucleotide #	WP_011244549.1

NCBI Official Full Name	cobyrinic acid a,c-diamide synthase
UniProt Protein Name	Cobyrinate a,c-diamide synthase
UniProt Synonym Protein Names	Cobyrinic acid a,c-diamide synthetase
Protein Family	Hydrogenobyrinate a,c-diamide synthase
UniProt Gene Name	cbiA
UniProt Comments for cobB	Catalyzes the ATP-dependent amidation of the two carboxylate groups at positions a and c of cobyrinate, using either L-glutamine or ammonia as the nitrogen source.
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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