Cobalamin Synthase (cobS) Thermosipho Africanus Recombinant Protein

PRODUCT OVERVIEW

Product Name	Cobalamin synthase (cobS), Recombinant Protein
Full Product Name	Recombinant Thermosipho africanus Cobalamin synthase (cobS)
Product Gene Name	cobS recombinant protein
Product Synonym Gene Name	cobS
Product Synonym Names	Recombinant Cobalamin synthase (cobS); Cobalamin synthase EC= 2.-.-.-
Sequence	MIKNFLLSLS FISRLPLNIN VNDFDRRVKK LPSFFPLVGY IVGSIYYLGA LSNNLALKVF FLVLAFYFFD LFHFDGFLDT LDGFLNQSTK EKRLEIMSKG DVGPFAVFFG TLFVVVFWNL YLNANPFYFF ISSTFGRYSM VLLMAFSKPA KKEGLGALFF PFEKKNLLIS TIFTFFLIIF FKQYIISLTV TLITTYLISK IATSKIGGVT GDVLGGTCLF VNGLILLILE VV
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 degree C. For extended storage, store at -20 or -80 degree C.
Molecular Weight	26,308 Da
Sequence Positions	1-232
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.
Chromosome Location	NC_011653.1 (1068148..1068846, complement)
3D Structure	ModBase 3D Structure for B7IHD7
Species	Thermosipho africanus (strain TCF52B)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for cobS recombinant protein	MBS1044351 is a recombinant protein targeting cobS. Also known as Recombinant Thermosipho africanus Cobalamin synthase (cobS). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of cobS 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 cobS. It may not necessarily be applicable to this product.

NCBI GI #	217077126
NCBI GeneID	7070959
NCBI Accession #	YP_002334842.1
UniProt Primary Accession #	B7IHD7

UniProt Related Accession #	B7IHD7
GenBank Nucleotide #	NC_011653.1
NCBI Official Full Name	cobalamin-5-phosphate synthase
NCBI Official Symbol	cobS
UniProt Protein Name	Cobalamin synthase
Protein Family	Adenosylcobinamide-GDP ribazoletransferase
UniProt Gene Name	cobS
UniProt Entry Name	COBS_THEAB
NCBI Protein Information	cobalamin-5-phosphate synthase
UniProt Comments for cobS	Function: Joins Ado-cobinamide-GDP and alpha-ribazole to generate adenosylcobalamin (Ado-cobalamin) By similarity. HAMAP-Rule MF_00719 Catalytic activity: GDP-cobinamide + alpha-ribazole = cobalamin + GMP. HAMAP-Rule MF_00719 Pathway: Cofactor biosynthesis; adenosylcobalamin biosynthesis; adenosylcobalamin from cob(II)yrinate a,c-diamide: step 7/7. HAMAP-Rule MF_00719 Subcellular location: Cell inner membrane; Multi-pass membrane protein By similarity HAMAP-Rule MF_00719. Sequence similarities: Belongs to the CobS family.
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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