Putative Cob (Ii)yrinic Acid A,c-Diamide Reductase (bluB) Rhodobacter Capsulatus Recombinant Protein

PRODUCT OVERVIEW

Product Name	Putative cob (II)yrinic acid a,c-diamide reductase (bluB), Recombinant Protein
Full Product Name	Recombinant Rhodobacter capsulatus Putative cob (II)yrinic acid a,c-diamide reductase
Product Gene Name	bluB recombinant protein
Sequence	MNFEQTHRDA LTEVLRWRRD VRHFRPDPID EAVIDRLRAV MDMAPSVGNA RPWRVIRVDS PALRAEVLAN FNAARAAAGS AYAGEQAEAY ATLKLQGIDQ APLQLAVFTH RDPAAGHGLG RASMPVTLQQ STAMAIHTLW LAARAENLGL GMVSVLDPKA VERLLNAPPD WDFVAWLCIG VPEFTDDTPL LHRAGWQENL PTEWERR
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	23,059 Da
Sequence Positions	1-207, 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 D5AV14
Species	Rhodobacter capsulatus (strain BAA-309 / NBRC 16581 / SB1003)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for bluB recombinant protein	MBS1157861 is a recombinant protein targeting bluB. Also known as Recombinant Rhodobacter capsulatus Putative cob (II)yrinic acid a,c-diamide reductase. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of bluB 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 bluB. It may not necessarily be applicable to this product.

NCBI GI #	502832799
NCBI Accession #	WP_013067775.1
UniProt Primary Accession #	D5AV14
UniProt Secondary Accession #	O68092; Q52685
GenBank Nucleotide #	WP_013067775.1
NCBI Official Full Name	5,6-dimethylbenzimidazole synthase

UniProt Protein Name	5,6-dimethylbenzimidazole synthase
Protein Family	5,6-dimethylbenzimidazole synthase
UniProt Gene Name	bluB
UniProt Synonym Gene Names	DMB synthase
UniProt Comments for bluB	Involved in the biosynthesis of cobalamin (vitamin B12). Catalyzes the oxidative fragmentation and contraction of the isoalloxazine heterocycle and the cleavage of the ribityl tail of FMNH2 to form 5,6-dimethylbenzimidazole (DMB) and D-erythrose 4-phosphate (E4P). NAD(P)H is only required initially to reduce FMN and oxygen drives the oxidative fragmentation ().
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