(Dimethylallyl)adenosine Trna Methylthiotransferase Miab (miaB) Pseudomonas Syringae Pv. Phaseolicola Recombinant Protein

PRODUCT OVERVIEW

Product Name	(Dimethylallyl)adenosine tRNA methylthiotransferase MiaB (miaB), Recombinant Protein
Full Product Name	Recombinant Pseudomonas syringae pv. phaseolicola (Dimethylallyl)adenosine tRNA methylthiotransferase MiaB (miaB)
Product Gene Name	miaB recombinant protein
Product Synonym Gene Name	miaB
Sequence	MAKKLYIETH GCQMNEYDSS RMVDLLGEHQ ALEVTARAED ADVILLNTCS IRERAQDRVY SQLGRWRELK LANPEMVIAV GGCVASQEGA AIRDRAPYVD VVFGPQTLHR LPEMIDAARI TRLPQVDVSF PEIEKFDHLP EPRVDGPSAY VSVMEGCSKY CTFCVVPYTR GEEVSRPFDD VLSEVIHLAE NGVREVTLLG QNVNGYRGTT HDGRVADLAD LIRVVAAVDG IDRIRYTTSH PLEFSDSLIQ AHAEVPELVK HLHLPVQSGS DRILAAMKRN HTTLEYKSRL RKLRAAVPGI SISSDFIVGF PGETEKDFDN TMKLIEDVGF DFSFSFVYSP RPGTPAADLK DDTPEALKKE RLAALQHRLN QQGFEISRQM VGSIQRILVT DYSKKDPGEL QGRTENNRIV NFRCNNPKLI GQFADVHIDD AQPHSLRGSL LQ
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	49,464 Da
Sequence Positions	1-442, 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 Q48DN8
Species	Pseudomonas syringae pv. phaseolicola (strain 1448A / Race 6)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for miaB recombinant protein	MBS1314301 is a recombinant protein targeting miaB. Also known as Recombinant Pseudomonas syringae pv. phaseolicola (Dimethylallyl)adenosine tRNA methylthiotransferase MiaB (miaB). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of miaB 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 miaB. It may not necessarily be applicable to this product.

NCBI GI #	492048520
NCBI Accession #	WP_005732197.1

UniProt Primary Accession #	Q48DN8
GenBank Nucleotide #	WP_005732197.1
NCBI Official Full Name	MULTISPECIES: tRNA (N6-isopentenyl adenosine(37)-C2)-methylthiotransferase MiaB
UniProt Protein Name	tRNA-2-methylthio-N(6)-dimethylallyladenosine synthase
UniProt Synonym Protein Names	(Dimethylallyl)adenosine tRNA methylthiotransferase MiaB
Protein Family	tRNA-2-methylthio-N(6)-dimethylallyladenosine synthase
UniProt Gene Name	miaB
UniProt Comments for miaB	Catalyzes the methylthiolation of N6-(dimethylallyl)adenosine (i6A), leading to the formation of 2-methylthio-N6-(dimethylallyl)adenosine (ms2i6A) at position 37 in tRNAs that read codons beginning with uridine.
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