(Dimethylallyl)adenosine Trna Methylthiotransferase Miab (miaB) Nitrosococcus Oceani Recombinant Protein

PRODUCT OVERVIEW

Product Name	(Dimethylallyl)adenosine tRNA methylthiotransferase MiaB (miaB), Recombinant Protein
Full Product Name	Recombinant Nitrosococcus oceani (Dimethylallyl)adenosine tRNA methylthiotransferase MiaB (miaB)
Product Gene Name	miaB recombinant protein
Product Synonym Gene Name	miaB
Sequence	MAKKLYIKTH GCQMNEYDSS RMADVLRESH GLELTSDPEQ AEVLLLNTCS VREKAQEKVF SQLGRWRQLK QSRPELVIGV GGCVASQEGE TIRVRAPYVD LVFGPQTIHR LPAMLTQAKA SSQPVVDLSF PEIEKFDKLP EPRAEGPTAF VSVMEGCSKY CSFCVVPYTR GEEISRPFDD VIAEIVGLAE QGVREITLLG QNVNAYRGSI GEGDTADLAL LIHYVASIEG IERIRFTTSH PVEFSDSLIQ AFAEVPALVS HLHLPVQSGS DRMLSLMKRG HTVLEYKAKL RKLRQVRPDI SISSDFIVGL PGETEADFQA TLALVDEVGF DHSFSFIYSP RPGTPAASLP DCTPIALKKE RLAILQGRLR ALEIAISRGM VDTVQQVLVE RPSKKDPTML AGRTANNRVV NFSASQDMVG QFVNIRITEA LPNSLRGIVL DAKRRCA
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	49,333 Da
Sequence Positions	1-447, 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 Q3JEH9
Species	Nitrosococcus oceani (strain 19707 / NCIMB 11848)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for miaB recombinant protein	MBS1326488 is a recombinant protein targeting miaB. Also known as Recombinant Nitrosococcus oceani (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 #	488901545
NCBI Accession #	WP_002812632.1

UniProt Primary Accession #	Q3JEH9
GenBank Nucleotide #	WP_002812632.1
NCBI Official Full Name	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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