# (Dimethylallyl)adenosine Trna Methylthiotransferase Miab (miaB) Burkholderia Cenocepacia Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | (Dimethylallyl)adenosine tRNA methylthiotransferase MiaB (miaB), Recombinant Protein |
| **Full Product Name** | Recombinant Burkholderia cenocepacia (Dimethylallyl)adenosine tRNA methylthiotransferase MiaB (miaB) |
| **Product Gene Name** | miaB recombinant protein |
| **Product Synonym Gene Name** | miaB |
| **Sequence** | MTKKVYVKTF GCQMNEYDSD KMVDVLNAAE GLEKTDTPED ADIILFNTCS VREKAQEKVF SDLGRVRELK EAKPGLLIGV GGCVASQEGA SIVSRAPYVD LVFGPQTLHR LPQMIDARRA SGRAQVDITF PEIEKFDHLP PARVEGPSAF VSIMEGCSKY CSYCVVPYTR GDEVSRPLDD VLTEVAGLAD QGVREVTLLG QNVNAYRGAL TAGSTDIADF ATLIEYVADI PGIERIRYTT SHPKEFTQRL IDTYAKVPKL VSHLHLPVQH GSDRILMAMK RGYTVLEYKS VIRKLRAIRP DLSLSTDMIV GFPGETEDDF DKMMALVHEM GYDTSFSFIY SPRPGTPAAN LADDTPREVK LKRLQHLQAT IEENVARISQ SMVGKVERIL VEGPSRKDPN ELAGRTENNR VVNFPAPLAS HPRLIGQMID VKINHAYPHS LRGELVLVSD DASTATH |
| **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** | 50,589 Da |
| **Sequence Positions** | 1-457, 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 Q1BTS3 |
| **Species** | Burkholderia cenocepacia (strain AU 1054) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for miaB recombinant protein** | MBS1399483 is a recombinant protein targeting miaB. Also known as Recombinant Burkholderia cenocepacia (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.

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| **NCBI GI #** | 493523806 |
| **NCBI Accession #** | WP_006477875.1 |

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| **UniProt Primary Accession #** | Q1BTS3 |
| **GenBank Nucleotide #** | WP_006477875.1 |
| **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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