Threonylcarbamoyladenosine Trna Methylthiotransferase Mtab (mtaB) Thermotoga Maritima Recombinant Protein

PRODUCT OVERVIEW

Product Name	Threonylcarbamoyladenosine tRNA methylthiotransferase MtaB (mtaB), Recombinant Protein
Full Product Name	Recombinant Thermotoga maritima Threonylcarbamoyladenosine tRNA methylthiotransferase MtaB (mtaB)
Product Gene Name	mtaB recombinant protein
Product Synonym Gene Name	mtaB
Sequence	MKTVRIETFG CKVNQYESEY MAEQLEKAGY VVLPDGNAAY YIVNSCAVTK EVEKKVKRLI KSIRNRNKNA KIILTGCFAQ LSPDEAKNLP VDMVLGIDEK KHIVDHINSL NGKQQVVVSE PGRPVYEKVK GSFEDRTRSY IKVEDGCDNT CTYCAIRLAR GTRIRSKPLE IFKEEFAEMV MKGYKEIVIT GVNLGKYGKD MGSSLAELLK VIEKVPGDYR VRLSSINVED VNDEIVKAFK RNPRLCPHLH ISVQSGSDDV LKRMGRKYKI SDFMRVVDKL RSIDPDFSIT TDIIVGFPGE TDADFQRTLE LVEKVEFSRV HIFRFSPRPG TPASRMEGGV PESKKKERLD VLKEKAKDVS IRYRKRIIGK ERKVLAEWYV MKGVLSGYDE YYVKHEFVGN RVGEFHSVRV KSLSEEGVIS CRADMVEGKV PARG
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	49,324 Da
Sequence Positions	1-434, 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 Q9WZT7
Species	Thermotoga maritima (strain 43589 / MSB8 / DSM 3109 / JCM 10099)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for mtaB recombinant protein	MBS1318772 is a recombinant protein targeting mtaB. Also known as Recombinant Thermotoga maritima Threonylcarbamoyladenosine tRNA methylthiotransferase MtaB (mtaB). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of mtaB 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 mtaB. It may not necessarily be applicable to this product.

NCBI GI #	15643593
NCBI GeneID	898500

NCBI Accession #	NP_228639.1
UniProt Primary Accession #	Q9WZT7
UniProt Related Accession #	Q9WZT7
GenBank Nucleotide #	NC_000853.1
NCBI Official Full Name	hypothetical protein TM0830
NCBI Official Symbol	TM0830
UniProt Protein Name	Threonylcarbamoyladenosine tRNA methylthiotransferase MtaB
UniProt Synonym Protein Names	tRNA-t(6)A37 methylthiotransferase
Protein Family	Methanol--corrinoid protein co-methyltransferase
UniProt Gene Name	mtaB
NCBI Protein Information	hypothetical protein
UniProt Comments for mtaB	Catalyzes the methylthiolation of N6-threonylcarbamoyladenosine (t6A), leading to the formation of 2-methylthio-N6-threonylcarbamoyladenosine (ms2t6A) at position 37 in tRNAs that read codons beginning with adenine.
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