Trna 5-Methylaminomethyl-2-Thiouridine Biosynthesis Bifunctional Protein Mnmc (mnmC) Shewanella Baltica Recombinant Protein

PRODUCT OVERVIEW

Product Name	tRNA 5-methylaminomethyl-2-thiouridine biosynthesis bifunctional protein MnmC (mnmC), Recombinant Protein
Full Product Name	Recombinant Shewanella baltica tRNA 5-methylaminomethyl-2-thiouridine biosynthesis bifunctional protein MnmC (mnmC), partial
Product Gene Name	mnmC recombinant protein
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	78,854 Da
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 A3D671
Species	Shewanella baltica (strain OS155 / BAA-1091)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for mnmC recombinant protein	MBS1263913 is a recombinant protein targeting mnmC. Also known as Recombinant Shewanella baltica tRNA 5-methylaminomethyl-2-thiouridine biosynthesis bifunctional protein MnmC (mnmC), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of mnmC 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 mnmC. It may not necessarily be applicable to this product.

NCBI GI #	500172756
NCBI Accession #	WP_011847181.1
UniProt Primary Accession #	A3D671
GenBank Nucleotide #	WP_011847181.1
NCBI Official Full Name	bifunctional tRNA (5-methylaminomethyl-2-thiouridine)(34)-methyltransferase MnmD/FAD-dependent 5-carboxymethylaminomethyl-2-thiouridine(34) oxidoreductase MnmC
UniProt Protein Name	tRNA 5-methylaminomethyl-2-thiouridine biosynthesis bifunctional protein MnmC
Protein Family	tRNA 5-methylaminomethyl-2-thiouridine biosynthesis bifunctional protein

UniProt Gene Name	mnmC
UniProt Synonym Gene Names	tRNA mnm(5)s(2)U biosynthesis bifunctional protein
UniProt Comments for mnmC	Catalyzes the last two steps in the biosynthesis of 5-methylaminomethyl-2-thiouridine (mnm5s2U) at the wobble position (U34) in tRNA. Catalyzes the FAD-dependent demodification of cmnm5s2U34 to nm5s2U34, followed by the transfer of a methyl group from S-adenosyl-L-methionine to nm5s2U34, to form mnm5s2U34.
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