Trna Threonylcarbamoyladenosine Biosynthesis Protein Rimn (rimN) Escherichia Coli Recombinant Protein

PRODUCT OVERVIEW

Product Name	tRNA threonylcarbamoyladenosine biosynthesis protein RimN (rimN), Recombinant Protein
Full Product Name	Recombinant Escherichia coli tRNA threonylcarbamoyladenosine biosynthesis protein RimN (rimN)
Product Gene Name	rimN recombinant protein
Sequence	MNNNLQRDAI AAAIDVLNEE RVIAYPTEAV FGVGCDPDSE TAVMRLLELK QRPVDKGLIL IAANYEQLKP YIDDTMLTDV QRETIFSRWP GPVTFVFPAP ATTPRWLTGR FDSLAVRVTD HPLVVALCQA YGKPLVSTSA NLSGLPPCRT VDEVRAQFGA AFPVVPGETG GRLNPSEIRD ALTGELFRQG
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	20,768 Da
Sequence Positions	1-190, 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 B1X6D5
Species	Escherichia coli (strain K12 / DH10B)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for rimN recombinant protein	MBS1166072 is a recombinant protein targeting rimN. Also known as Recombinant Escherichia coli tRNA threonylcarbamoyladenosine biosynthesis protein RimN (rimN). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of rimN 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 rimN. It may not necessarily be applicable to this product.

NCBI GI #	485657417
NCBI Accession #	WP_001301412.1
UniProt Primary Accession #	B1X6D5
GenBank Nucleotide #	WP_001301412.1
NCBI Official Full Name	MULTISPECIES: L-threonylcarbamoyladenylate synthase type 1 TsaC

UniProt Protein Name	Threonylcarbamoyl-AMP synthase
UniProt Synonym Protein Names	L-threonylcarbamoyladenylate synthase
UniProt Gene Name	tsaC
UniProt Synonym Gene Names	TC-AMP synthase
UniProt Comments for rimN	Required for the formation of a threonylcarbamoyl group on adenosine at position 37 (t6A37) in tRNAs that read codons beginning with adenine. Catalyzes the conversion of L-threonine, HCO3-/CO2 and ATP to give threonylcarbamoyl-AMP (TC-AMP) as the acyladenylate intermediate, with the release of diphosphate.
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