Ribosomal RNA Large Subunit Methyltransferase N (rlmN) Shigella Flexneri Recombinant Protein

PRODUCT OVERVIEW

Product Name	Ribosomal RNA large subunit methyltransferase N (rlmN), Recombinant Protein
Full Product Name	Recombinant Shigella flexneri Ribosomal RNA large subunit methyltransferase N (rlmN)
Product Gene Name	rlmN recombinant protein
Product Synonym Gene Name	rlmN
Sequence	MSEQLVTPEN VTTKDGKINL LDLNRQQMRE FFKDLGEKTF RADQVMKWMY HYCCDNFDEM TDINKVLRGK LKEVAEIRAP EVVEEQRSSD GTIKWAIAVG DQRVETVYIP EDDRATLCVS SQVGCALECK FCSTAQQGFN RNLRVSEIIG QVWRAAKIVG AAKVTGQRPI TNVVMMGMGE PLLNLNNVVP AMEIMLDDFG FGLSKRRVTL STSGVVPALD KLGDMIDVAL AISLHAPNDE IRDEIVPINK KYNIETFLAA VRRYLEKSNA NQGRVTIEYV MLDHVNDGTE HAHQLAELLK DTPCKINLIP WNPFPDAPYG RSSNSRIDRF SKVLMSYGFT TIVRKTRGDD IDAACGQLAG DVIDRTKRTL RKRMQGEAID IKAV
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	43,148 Da
Sequence Positions	1-384, 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 Q83K42
Species	Shigella flexneri
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for rlmN recombinant protein	MBS1398649 is a recombinant protein targeting rlmN. Also known as Recombinant Shigella flexneri Ribosomal RNA large subunit methyltransferase N (rlmN). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of rlmN 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 rlmN. It may not necessarily be applicable to this product.

NCBI GI #	24113846
NCBI GeneID	1026797
NCBI Accession #	NP_708356.1

UniProt Primary Accession #	Q83K42
UniProt Secondary Accession #	Q7C0G8
GenBank Nucleotide #	NC_004337.2
NCBI Official Full Name	ribosomal RNA large subunit methyltransferase N
NCBI Official Symbol	yfgB
UniProt Protein Name	Dual-specificity RNA methyltransferase RlmN
UniProt Synonym Protein Names	23S rRNA (adenine(2503)-C(2))-methyltransferase
Protein Family	Dual-specificity RNA methyltransferase
UniProt Gene Name	rlmN
NCBI Protein Information	ribosomal RNA large subunit methyltransferase N
UniProt Comments for rlmN	Specifically methylates position 2 of adenine 2503 in 23S rRNA and position 2 of adenine 37 in tRNAs. m2A2503 modification seems to play a crucial role in the proofreading step occurring at the peptidyl transferase center and thus would serve to optimize ribosomal fidelity.
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