Trna (Ile)-Lysidine Synthase (tilS) Chlorobium Tepidum Recombinant Protein

PRODUCT OVERVIEW

Product Name	tRNA (Ile)-lysidine synthase (tilS), Recombinant Protein
Full Product Name	Recombinant Chlorobium tepidum tRNA (Ile)-lysidine synthase (tilS)
Product Gene Name	tilS recombinant protein
Product Synonym Gene Name	tilS
Sequence	MNKTEKKFLE NMHRQKLVAN GDAVLLAVSG GPDSMALLHL FASVASVLHC RLGVAHCNFM LRGDASDADE SFVRDACAEL GIDFHVRRFD TASVSSAWKK SIEETARLLR YDFFGELCRE ASYTRIATGH HSDDNAETVL FNLFRGAGIS GLRGIRVRHG AIIRPLLPFT RREIVAYLEE KRVVWRDDHT NEGIEYDRNF IRNRVIPVIE ERFAHKLMPS LQRISEHAGE LEEFIDLHIS RLLEAHPGLD LAGGKLHVGT MRQLSMFERK EILKRALKLQ GLSVGSNVLN RIAGLLDNQA GRSVPAGAGV EVVLHDGFLR FRQTGNPSDH R
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	37,135 Da
Sequence Positions	1-331, 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 Q8KC15
Species	Chlorobium tepidum (strain 49652 / DSM 12025 / TLS)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for tilS recombinant protein	MBS1479910 is a recombinant protein targeting tilS. Also known as Recombinant Chlorobium tepidum tRNA (Ile)-lysidine synthase (tilS). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of tilS 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 tilS. It may not necessarily be applicable to this product.

NCBI GI #	21674432
NCBI GeneID	1006109
NCBI Accession #	NP_662497.1
UniProt Primary Accession #	Q8KC15
UniProt Secondary Accession #	Q93SU5

UniProt Related Accession #	Q8KC15
GenBank Nucleotide #	NC_002932.3
NCBI Official Full Name	MesJ protein
NCBI Official Symbol	mesJ
UniProt Protein Name	tRNA(Ile)-lysidine synthase
UniProt Synonym Protein Names	tRNA(Ile)-2-lysyl-cytidine synthase
Protein Family	tRNA(Ile)-lysidine synthase
UniProt Gene Name	tilS
NCBI Protein Information	MesJ protein
UniProt Comments for tilS	Ligates lysine onto the cytidine present at position 34 of the AUA codon-specific tRNA(Ile) that contains the anticodon CAU, in an ATP-dependent manner. Cytidine is converted to lysidine, thus changing the amino acid specificity of the tRNA from methionine to isoleucine.
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