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

PRODUCT OVERVIEW

Product Name	tRNA (Ile)-lysidine synthase (tilS), Recombinant Protein
Full Product Name	Recombinant Leptospira interrogans serogroup Icterohaemorrhagiae serovar copenhageni tRNA (Ile)-lysidine synthase (tilS)
Product Gene Name	tilS recombinant protein
Product Synonym Gene Name	tilS
Sequence	MRDKISESTQ KIFHAVWERI APFHEMIQSR PAVLSYSGGK DSSILLHFYF WLWIEKKIPA PCIYHLDHSI RFNLEQEKKI FEYADSTFPF SKIFKKKNIP ALSRRLGKTL EETGRAFRYK DLKKISDQYE GYIVTGHHSS DYLETILLNL IRGGGWNSLR TLGWYEKNRF RPLFAFSQEE IETILQSEFW KIFEDESNNS DEYLRNRIRS YIIPLLLREG ANPDRIYKNF HRIEKPVSKI FSKKNSDHKI PSFLKIDIWV LNDLSQRERK FFIDRYLRSL NLYPTTRNFF RDLTDLLQKE NSFSLENKET WFWKSTSSDL YLIPKNSPCL REFRFEPKEM VLKWNGNQKK IPPDLIPDLC PAGAKIRKNG MSIEISEILR QKEIPVPVRK MLPILRGERK VDVICLSLWD PKIGDIVADR EVEILPDFQE PGV
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	51,393 Da
Sequence Positions	1-433, 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 Q72W10
Species	Leptospira interrogans serogroup Icterohaemorrhagiae serovar copenhageni (strain Fiocruz L1-130)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for tilS recombinant protein	MBS1454899 is a recombinant protein targeting tilS. Also known as Recombinant Leptospira interrogans serogroup Icterohaemorrhagiae serovar copenhageni 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 #	447127785
NCBI Accession #	WP_001205041.1

UniProt Primary Accession #	Q72W10
GenBank Nucleotide #	WP_001205041.1
NCBI Official Full Name	tRNA(Ile)-lysidine synthetase
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
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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