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

PRODUCT OVERVIEW

Product Name	tRNA (Ile)-lysidine synthase (tilS), Recombinant Protein
Full Product Name	Recombinant Aromatoleum aromaticum tRNA (Ile)-lysidine synthase (tilS)
Product Gene Name	tilS recombinant protein
Product Synonym Gene Name	tilS
Sequence	MLVAAAVAPR QRLCVAFSGG ADSTTLLHLL ARLRPRFGFD LCAAHVHHAL SPNADAWLDF CARQCAALDV AFHPFREQVA RDHPAGLEAA AREVRHAALS RVTCDWLVFG HHQDDQAETL LFRLLRGAGV RGAAAMAAIE PGFPGRLRPL LGVRRADIRA FAQAASLEWI EDESNADPRH ARNFLRHHVF PLFGEAFPGA VPALARASGH FREADGLLGD LAALDYAACG GSPWLRDRLL MLSDERVRNL LRWRIRQMGC EAPARARLVE AVRQLRATHA PLYLPLGTAA CCTYRDRLWL EPQRDGAPEQ PLPWRQEPAL CWGAGVVRFE PVTGAGIGRG ALQRAMDVAL VPRWPGLMLR QDSGRPLRSF KNLCQEAGIP AWLRPRLPVL RVDGEAAWIG EIGVAAEFRC GPGEAGLLLV WQR
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	46,557 Da
Sequence Positions	1-423, 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 Q5P2I9
Species	Aromatoleum aromaticum (strain EbN1) (Azoarcus sp. (strain EbN1))
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for tilS recombinant protein	MBS1328935 is a recombinant protein targeting tilS. Also known as Recombinant Aromatoleum aromaticum 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 #	499557379
NCBI Accession #	WP_011238162.1
UniProt Primary Accession #	Q5P2I9
GenBank Nucleotide #	WP_011238162.1

NCBI Official Full Name	tRNA(Ile)-lysidine synthase
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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