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

PRODUCT OVERVIEW

Product Name	tRNA (Ile)-lysidine synthase (tilS), Recombinant Protein
Full Product Name	Recombinant Thermosynechococcus elongatus tRNA (Ile)-lysidine synthase (tilS)
Product Gene Name	tilS recombinant protein
Product Synonym Gene Name	tilS
Sequence	MWGIHHARLH TTLKTQQWLP LGSRILIALS GGQDSVCLTR LLLDLQPHWQ WSLVAVHCDH RWRADSTANA NFVQQLAQKW HLPCEVVSAP DLPKTEAAAR SWRYQVFESV AKALDCTHVV TAHTQSDRAE SLLLHLLRGT SPDGLATLLP SRSLGAIQLV RPLLGMTRAQ TAAFCQAYGL PIWQDETNHN LEYRRNRLRL ELIPYLQQHF NPNVEEALAQ TAELLASDRA YFEAEVERLA PTVLREHPPA LDRLRLREFP LALQRRLIQC FLRQHLKRGL NFRVIEAVRA LMTTGNGSQT ASLPGGQHLR VCGRWIELVR PMPPPPAPVP PDPGERSPPP SPLY
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	38,878 Da
Sequence Positions	1-344, 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 Q8DIH2
Species	Thermosynechococcus elongatus (strain BP-1)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for tilS recombinant protein	MBS1347725 is a recombinant protein targeting tilS. Also known as Recombinant Thermosynechococcus elongatus 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 #	22299159
NCBI GeneID	1011957
NCBI Accession #	NP_682406.1
UniProt Primary Accession #	Q8DIH2
UniProt Related Accession #	Q8DIH2

GenBank Nucleotide #	NC_004113.1
NCBI Official Full Name	hypothetical protein tlr1616
NCBI Official Symbol	ycf62
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	hypothetical 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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