Trna (Ile)-Lysidine Synthase, Chloroplastic (tilS) Gracilaria Tenuistipitata Var. Liui Recombinant Protein

PRODUCT OVERVIEW

Product Name	tRNA (Ile)-lysidine synthase, chloroplastic (tilS), Recombinant Protein
Full Product Name	Recombinant Gracilaria tenuistipitata var. liui tRNA (Ile)-lysidine synthase, chloroplastic (tilS)
Product Gene Name	tilS recombinant protein
Product Synonym Gene Name	tilS
Sequence	MTYTYLHNKF LSIIPKYKNL IKPLSILIAL SGGKDSLCLV KLIEDFNNTY NHFSRIEYIY IDHQWRSDSK QNIKHLLNYI SITNNNTYIY QINKMEISEA NMRNIRYQAI VRHAIQNSHD IIVTGHNQTD QVETFLLNLM RGTGLEGLSS LPYIRKITDQ IQVIRPLIHI NTGDVLWFCR KFNLPIWSDK TNFYYTNFRN RIRYELLPYL KEYFHPKIES NIINFLSLSS IENEYIKQNS IKLYLASRHS HYIAINYKII KNQHLALQKR VLNIFFYHNF NKYVNSHILN QLIKMKYQRK LTIVWETLRI KIYKNWIYIQ
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	38,567 Da
Sequence Positions	1-320, 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 Q6B8L1
Species	Gracilaria tenuistipitata var. liui (Red alga)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for tilS recombinant protein	MBS1323192 is a recombinant protein targeting tilS. Also known as Recombinant Gracilaria tenuistipitata var. liui tRNA (Ile)-lysidine synthase, chloroplastic (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 #	51210035
NCBI GeneID	2944013
NCBI Accession #	YP_063699.1
UniProt Primary Accession #	Q6B8L1

UniProt Related Accession #	Q6B8L1
GenBank Nucleotide #	NC_006137.1
NCBI Official Full Name	conserved hypothetical plastid protein (chloroplast)
NCBI Official Symbol	ycf62
UniProt Protein Name	tRNA(Ile)-lysidine synthase, chloroplastic
UniProt Synonym Protein Names	tRNA(Ile)-2-lysyl-cytidine synthase
Protein Family	tRNA(Ile)-lysidine synthase
UniProt Gene Name	tilS
NCBI Protein Information	conserved hypothetical plastid 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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