Lysine--Trna Ligase, Heat Inducible (lysU) Escherichia Coli Recombinant Protein

PRODUCT OVERVIEW

Product Name	Lysine--tRNA ligase, heat inducible (lysU), Recombinant Protein
Full Product Name	Recombinant Escherichia coli Lysine--tRNA ligase, heat inducible (lysU)
Product Gene Name	lysU recombinant protein
Sequence	SEQETRGANE AIDFNDELRN RREKLAALRQ QGVAFPNDFR RDHTSDQLHE EFDAKDNQEL ESLNIEVSVA GRMMTRRIMG KASFVTLQDV GGRIQLYVAR DSLPEGVYND QFKKWDLGDI IGARGTLFKT QTGELSIHCT ELRLLTKALR PLPDKFHGLQ DQEVRYRQRY LDLIANDKSR QTFVVRSKIL AAIRQFMVAR GFMEVETPMM QVIPGGASAR PFITHHNALD LDMYLRIAPE LYLKRLVVGG FERVFEINRN FRNEGISVRH NPEFTMMELY MAYADYHDLI ELTESLFRTL AQEVLGTTKV TYGEHVFDFG KPFEKLTMRE AIKKYRPETD MADLDNFDAA KALAESIGIT VEKSWGLGRI VTEIFDEVAE AHLIQPTFIT EYPAEVSPLA RRNDVNPEIT DRFEFFIGGR EIGNGFSELN DAEDQAERFQ EQVNAKAAGD DEAMFYDEDY VTALEYGLPP TAGLGIGIDR MIMLFTNSHT IRDVILFPAM RPQK
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	57,827 Da
Sequence Positions	2-505, 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 P0A8N5
Species	Escherichia coli (strain K12)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for lysU recombinant protein	MBS1230404 is a recombinant protein targeting lysU. Also known as Recombinant Escherichia coli Lysine--tRNA ligase, heat inducible (lysU). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of lysU 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 lysU. It may not necessarily be applicable to this product.

NCBI GI #	16131955
NCBI GeneID	948645
NCBI Accession #	NP_418553.1
UniProt Primary Accession #	P0A8N5

UniProt Secondary Accession #	P14825; Q2M6H4
GenBank Nucleotide #	NC_000913.3
NCBI Official Full Name	lysine tRNA synthetase, inducible
NCBI Official Symbol	lysU
NCBI Official Synonym Symbols	ECK4123; JW4090
UniProt Protein Name	Lysine--tRNA ligase, heat inducible
UniProt Synonym Protein Names	Lysyl-tRNA synthetase; LysRS
Protein Family	Lysine--tRNA ligase
UniProt Gene Name	lysU
UniProt Synonym Gene Names	LysRS
NCBI Protein Information	lysine tRNA synthetase, inducible
NCBI Summary for lysU	The lysyl-tRNA synthetase LysU is a member of the family of aminoacyl tRNA synthetases, which interpret the genetic code by covalently linking amino acids to their specific tRNA molecules. [More information is available at EcoCyc: EG10553].
UniProt Comments for lysU	Also can synthesize a number of adenyl dinucleotides (in particular AppppA). These dinucleotides have been proposed to act as modulators of the heat-shock response and stress response.
Research Articles on lysU	**1.** N-terminus verified by Edman degradation on mature peptide
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