



# Recombinant Human Lysine--tRNA ligase (KARS)

<b>Product Code</b>	CSB-MP618973HU
<b>Abbreviation</b>	KARS
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	Q15046
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	AAVQAAEVK VDGSEPKLSK NELKRRLKAE KKVAEKEAKQ KELSEKQLSQ ATAAATNHTT DNGVGPPEES VDPNQYYKIR SQAIHQKLVN GEDPYPHKFKH VDISLTDIFIQ KYSHLQPGDH LTDITLKVAG RIHAKRASGG KLIFYDLRGE GVKLQVMANS RNYKSEEEFI HINNKLRRGD IIGVQGNPGK TTKGELSIIP YEITLLSPCL HMLPHLHFGL KDKETRYRQR YLDLILNDFV RQKFIIRSKI ITYIRSFLDE LGFLEIETPM MNIIPGGAVA KPFITYHNEL DMNLYMRIAP ELYHKMLVVG GIDRVYEIGR QFRNEGIDLT HNPEFTTCEF YMAYADYHDL MEITEKMVSG MVKHITGSYK VTYHPDGPEG QAYDVDFTPP FRRINMVEEL EKALGMKLPE TNLFETEETR KILDDICVAK AVECPPPRTT ARLLDKLVGE FLEVTCINPT FICDHPQIMS PLAKWHSKE GLTERFELFV MKKEICNAYT ELNDPMRQRQ LFEEQAKAKA AGDDEAMFID ENFCTALEYG LPPTAGWGMG IDRVAMFLTD SNNIKEVLLF PAMKPEDKKE NVATTDLTLES TTVGTSV
<b>Source</b>	Mammalian cell
<b>Target Names</b>	KARS
<b>Protein Names</b>	Recommended name: Lysine--tRNA ligase EC= 6.1.1.6 Alternative name(s): Lysyl-tRNA synthetase Short name= LysRS
<b>Expression Region</b>	2-597
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full Length of Mature Protein
<b>Target Details</b>	Aminoacyl-tRNA synthetases are a class of enzymes that charge tRNAs with their cognate amino acids. Lysyl-tRNA synthetase is a homodimer localized to the cytoplasm which belongs to the class II family of tRNA synthetases. It has been shown to be a target of autoantibodies in the human autoimmune diseases, polymyositis or dermatomyositis. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.
<b>Reconstitution</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a



concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

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