



Recombinant Human Lysine--tRNA ligase (KARS)

Product Code	CSB-YP618973HU
Abbreviation	KARS
Storage	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.
Uniprot No.	Q15046
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	>85% (SDS-PAGE)
Sequence	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 ITYIRSFLE 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
Source	Yeast
Target Names	KARS
Protein Names	Recommended name: Lysine--tRNA ligase EC= 6.1.1.6 Alternative name(s): Lysyl-tRNA synthetase Short name= LysRS
Expression Region	2-597
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full Length of Mature Protein
Target Details	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.
Reconstitution	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.

Shelf Life

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