

Recombinant Human KARS Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. KARS-6605H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	KARS MS Standard C13 and N15-labeled recombinant protein (NP_005539) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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.
Molecular Mass	68 kDa
AA Sequence	<p>MAAVQAAEVKVDGSEPKLSKNELKRRLKAEKKVAEKEAKQKELSEKQLSQATAAAT NHTTDNGVGPPEEESVDPNQYYKIRSQAIHQKLVNGEDPYPHKFHVDISLTDIFIQKYS HLQPGDHLTDITLKVAGRIHAKRASGGKLIFYDLRGEGVKLQVMANSRNYKSEEEFIH INNKLRRGDIIGVQGNPGKTKKGELSIIPYEITLLSPCLHMLPHLHFGLKDKETRYRQR YLDLILNDFVRQKFIIRSKIITYIRSFLDELGFLEIETPMMNIIPGGAVAKPFITYHNELDM NLYMRIAPELYHKMLVVGGIDRVYEIGRQFRNEGIDLTHNPEFTTCEFYMAYADYHD LMEITEKMVSGMVKHITGSYKVTYHPDGPEGQAYDVDFTPPFRRINMVVELEKALG</p>

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MKLPETNLFETEETRKILDDICVAKAVECPPPRTTARLLDKLVGEFLEVTCINPTFICD
 HPQIMSPLAKWHRSKEGLTERFELFVMKKEICNAYTELNDPMRQRQLFEEQAKAKA
 AGDDEAMFIDENFCTALEYGLPPTAGWGMGIDRVAMFLTDSNNIKEVLLFPAMKPED
 KKENVATTDLTLESTTVGTSVTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name [KARS lysyl-tRNA synthetase \[Homo sapiens \(human\) \]](#)

Official Symbol [KARS](#)

Synonyms KARS; lysyl-tRNA synthetase; lysine--tRNA ligase; KARS2; lysine tRNA ligase; lysRS; KRS; CMTRIB; KIAA0070;

Gene ID [3735](#)

mRNA Refseq [NM_005548](#)

Protein Refseq [NP_005539](#)

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MIM 601421

UniProt ID Q15046

SDS-PAGE



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