

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	MAAVQAAEVKVDGSEPKLSKNELKRRLKAEKKVAEKEAKQKELSEKQLSQATAAAT NHTTDNGVGPEEESVDPNQYYKIRSQAIHQKLVNGEDPYPHKFHVDISLTDIFIQKYS HLQPGDHLTDITLKVAGRIHAKRASGGKLIFYDLRGEGVKLQVMANSRNYKSEEEFIH INNKLRRGDIIGVQGNPGKTKKGELSIIPYEITLLSPCLHMLPHLHFGDKDKETRYRQR YLDLILNDFVRQKFIIRSKIITYIRSFLDELGFLEIETPMMNIIPGGAVAKPFITYHNELDM NLYMRIAPELYHKMLVVGGIDRVYEIGRQFRNEGIDLTHNPEFTTCEFYMAYADYHD LMEITEKMVSGMVKHITGSYKVTYHPDGPEGQAYDVDFTPPFRRINMVEELEKALG

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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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