

Recombinant Full Length Human KARS1 Protein, C-Flag-tagged

Cat. No. KARS1-117HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human KARS1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	67.9 kDa
AA Sequence	MAAVQAAEVKVDGSEPKLSKNELKRRLKAEKKVAEKEAKQKELSEKQLSQATAAAT NHTTDNGVGPEEES VDPNQYYKIRSQAIHQKLVNGEDPYPHKFHVDISLTDFIQKYS HLQPGDHLTDITLKVAGRIHAKRASGG KLIFYDLRGEGVKLQVMANSRNYKSEEEFI HINNKLRRGDIIGVQGNPGKTKKGELSIIPIYEITLLSPCL HMLPHLHFGLKDKETRYRQ RYLDLILNDFVRQKFIIIRSKIITYIRSFLDELGFLEIETPMMNIIPGGAVA KPFITYHNELD MNLYMRIAPELYHKMLVVGGIDRVYEIGRQFRNEGIDLTHNPEFTTCEFYMAYADYH

 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

DL MEITEKMVSGMVKHITGSYKVTYHPDGPEGQAYDVDFTPPFRRINMVEELEKAL
 GMKLPETNLFETEETR KILDDICVAKAVECPPPRTTARLLDKLVGEFLEVTCINPTFIC
 DHPQIMSPLAKWHRKEGLTERFELFV MKKEICNAYTELNDPMRQRQLFEEQAKAK
 AAGDDEAMFIDENFCTALEYGLPPTAGWGMGIDRVAMFLTD
 SNNIKEVLLFPAMKPEDKKENVATTDLTLESTTVGTSVTRTRPLEQKLISEEDLAANDIL
 DYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Pathways	Aminoacyl-tRNA biosynthesis
Full Length	Full L.

GENE INFORMATION

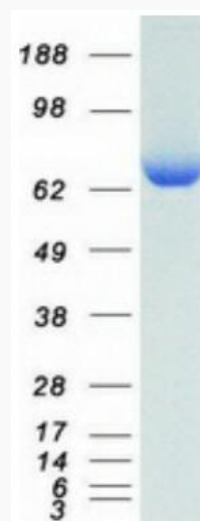
Gene Name	KARS1 lysyl-tRNA synthetase 1 [Homo sapiens (human)]
Official Symbol	KARS1
Synonyms	KRS; KARS; KARS2; LEPID; CMTRIB; DEAPLE; DFN89

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Gene ID	3735
mRNA Refseq	NM_005548.3
Protein Refseq	NP_005539.1
MIM	601421
UniProt ID	Q15046



Coomassie blue staining of purified KARS protein.