

Product datasheet for **TP300311L**

Lysyl tRNA synthetase (KARS) (NM_005548) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Recombinant protein of human lysyl-tRNA synthetase (KARS), transcript variant 2, 1 mg

Species: Human

Expression Host: HEK293T

**Expression cDNA Clone
or AA Sequence:** >RC200311 protein sequence
Red=Cloning site **Green**=Tags(s)

MAAVQAAEVKVDGSEPKLSKNELEKRRRLKAEKKVAEKEAKQKELSEKQLSQATAAATNHTTDNGVGPEEES
VDPNQYYKIRSQAIIHQLKVNVEDPYPHKFHVDISLTDIFIQKYSHLQPGDHLTDITLKVAGRIHAKRASGG
KLIFYDLRGEGVKLQVMANSRNYKSEEEFIHINNKLRRGDIIGVQGNPGKTKKGELSIIPEITLLSPCL
HMLPHLHFGKDKETRYRQRYLDLILNDFVRQKFIIRSKIITYIRSFDELGFLEIETPMMNIIIPGGAVA
KPFITYHNELDMNLYMRIAPELYHKMLVGGIDRVYEIGRQFRNEGIDLTHNPEFTTCEFYMAYADYHDL
MEITEKMVSGMVKHITGSYKVTYHPDGPEGQAYDVFPPFRRINMVEELEKALGMKLPETNLFETEETR
KILDDICVAKAVECPPRRTARLLDKLVGEFLEVTCINPTFICDHPQIMSPLAKWHRSEGLTERFELFV
MKKEICNAYTELNDPMRQRQLFEEQAKAKAAGDDEAMFIDENFCTALEYGLPPTAGWGMGIDRVAMFLTD
SNNIKEVLLFPAMKPEDKKENVATTDLTLESTTVGTSV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

Predicted MW: 67.9 kDa

Concentration: >0.05 µg/µL as determined by microplate BCA method

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

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

Preparation: Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

Note: For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

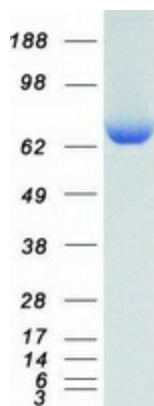
Storage: Store at -80°C.



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Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_005539
Locus ID:	3735
UniProt ID:	Q15046
RefSeq Size:	2017
Cytogenetics:	16q23.1
RefSeq ORF:	1791
Synonyms:	CMTRIB; DEAPLE; DFNB89; KARS; KARS2; KRS; LEPID
Summary:	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. [provided by RefSeq, Jul 2008]
Protein Pathways:	Aminoacyl-tRNA biosynthesis

Product images:



Coomassie blue staining of purified KARS protein (Cat# [TP300311]). The protein was produced from HEK293T cells transfected with KARS cDNA clone (Cat# [RC200311]) using MegaTran 2.0 (Cat# [TT210002]).