

# Product datasheet for AR39106PU-N

### KARS (63-597, His-tag) Human Protein

#### **Product data:**

#### OriGene Technologies, Inc.

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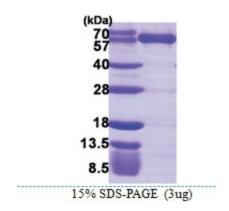
| Product Type:                            | Recombinant Proteins  |
|--|---|
| Description:                             | KARS (63-597, His-tag) human recombinant protein, 0.1 mg  |
| Species:                                 | Human   |
| Expression Host:                         | E. coli   |
| Expression cDNA Clone<br>or AA Sequence: | MGSSHHHHHH SSGLVPRGSH MGS<br>GVGPEEE SVDPNQYYKI RSQAIHQLKV NGEDPYPHKF<br>HVDISLTDFI QKYSHLQPGD HLTDITLKVA GRIHAKRASG GKLIFYDLRG EGVKLQVMAN<br>SRNYKSEEEF IHINNKLRRG DIIGVQGNPG KTKKGELSII PYEITLLSPC LHMLPHLHFG LKDKETRYRQ<br>RYLDLILNDF VRQKFIIRSK IITYIRSFLD ELGFLEIETP MMNIIPGGAV AKPFITYHNE LDMNLYMRIA<br>PELYHKMLVV GGIDRVYEIG RQFRNEGIDL THNPEFTTCE FYMAYADYHD LMEITEKMVS<br>GMVKHITGSY KVTYHPDGPE GQAYDVDFTP PFRRINMVEE LEKALGMKLP ETNLFETEET<br>RKILDDICVA KAVECPPPRT TARLLDKLVG EFLEVTCINP TFICDHPQIM SPLAKWHRSK EGLTERFELF<br>VMKKEICNAY TELNDPMRQR QLFEEQAKAK AAGDDEAMFI DENFCTALEY GLPPTAGWGM<br>GIDRVAMFLT DSNNIKEVLL FPAMKPEDKK ENVATTDTLE STTVGTSV |
| Tag:                                     | His-tag   |
| Predicted MW:                            | 63.7 kDa  |
| Concentration:                           | lot specific  |
| Purity:                                  | >95%  |
| Buffer:                                  | Presentation State: Purified<br>State: Liquid purified protein<br>Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 0.1M NaCl, 1 mM DTT  |
| Preparation:                             | Liquid purified protein   |
| Protein Description:                     | Recombinant human KARS protein, fused to His-tag at N-terminus, was expressed in E.coli<br>and purified by using conventional chromatography.   |
| Storage:                                 | Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer.<br>Avoid repeated freezing and thawing.   |
| Stability:                               | Shelf life: one year from despatch.   |
| RefSeq:                                  | <u>NP 001123561</u>   |
| Locus ID:                                | 3735  |



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|                 | KARS (63-597, His-tag) Human Protein – AR39106PU-N   |
|-----------------|--|
| UniProt ID:     | <u>Q15046</u>  |
| Cytogenetics:   | 16q23.1  |
| Synonyms:       | CMTRIB; DEAPLE; DFNB89; KARS; KARS2; KRS; LEPID  |
| Summary:        | Aminoacyl-tRNA synthetases are a class of enzymes that charge tRNAs with their cognate<br>amino acids. Lysyl-tRNA synthetase is a homodimer localized to the cytoplasm which belongs<br>to the class II family of tRNA synthetases. It has been shown to be a target of autoantibodies<br>in the human autoimmune diseases, polymyositis or dermatomyositis. Alternatively spliced<br>transcript variants encoding different isoforms have been found for this gene. [provided by<br>RefSeq, Jul 2008] |
| Protein Pathway | s: Aminoacyl-tRNA biosynthesis   |

## Product images:



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