

## Lysyl-tRNA Synthetase Human Recombinant

<b>Item Number</b>	rAP-1858
<b>Synonyms</b>	Lysine--tRNA ligase, Lysyl-tRNA synthetase, LysRS, KARS, KIAA0070, KRS, KARS2, CMTRIB.
<b>Description</b>	KARS Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 558 amino acids (63-597 a.a.) and having a molecular mass of 63.7kDa.KARS is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.
<b>Uniprot Accesion Number</b>	Q15046
<b>Amino Acid Sequence</b>	MGSSHHHHHH SSGLVPRGSH MSGVGPEEE SVDPNQYYKI RSQAIHQLKV NGEDPYPHKF HVDISLTD DFI QKYSHLQPGD HLTDTLKVA GRIHAKRASG GKLIFYDLRG EGVKLQVMAN SRNYKSEEEF IHINN- KLRRG DIIGVQGNPG KTKKGELSII PYEITLLSPC LHMLPHLHFG LKDKETRYRQ RYLDLILNDF VRQKFIIRSK IITYIRSFLD ELGFLEIETP MMNIIPGGAV AKPFITYHNE LDMNLYMRIA PELYHKMLVV GGIDRVYEIG RQFRNEGIDL THNPEFTTCE FYMAYADYHD LMEITEKMVS GMVKHITGSY KVTYHPDGPE GQAYDVDFTP PFRRINMVEE LEKALGMKLP ETNLFETEET RKILDDICVA KAVECPP- PRT TARLLDKLVG EFLEVTCINP TFICDHPQIM SPLAKWHRSK EGLTERFELF VMKKEICNAY TELNDPMRQR QLFEEQAKAK AAGDDEAMFI DENFCTALEY GLPPTAGWGM GIDRVAMFLT DSNNI-
<b>Source</b>	Escherichia Coli.
<b>Physical Appearance and Stability</b>	Sterile Filtered colorless solution. Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles.
<b>Formulation and Purity</b>	KARS protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 20% glycerol, 0.1M NaCl and 1mM DTT. Greater than 95.0% as determined by SDS-PAGE.
<b>Application</b>	
<b>Solubility</b>	
<b>Biological Activity</b>	
<b>Shipping Format and Condition</b>	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**