

KARS recombinant protein

KARS, 63-597aa, Human, His tag, E Coli

CATALOG # AAA48748	HOST E Coli	APPLICATIONS SDS-Page
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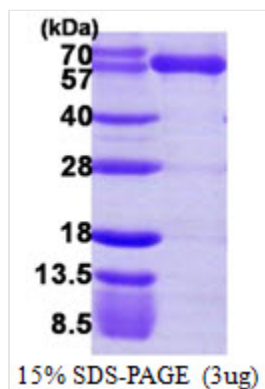
PRODUCT SYNONYMS

KARS; 63-597aa; Human; His tag; E Coli; Lysyl-tRNA synthetase; CMTRIB; KARS2; KIAA0070; KRS; KARS recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	> 95% by SDS-PAGE
Form/Format	Liquid. 20mM Tris-HCl Buffer (pH 8.0) containing 20% glycerol, 0.1M NaCl, 1mM DTT
Concentration	1.0 mg/ml (determined by Bradford assay) (varies by lot)
Sequence	MGSSHHHHHH SSGLVPRGSH MGSGVGPEEE SVDPNQYYKI RSQAIHQKLV NGEDPYPHKF HVDISLTDFI QKYSHLQPGD HLTDLTKVA GRIHAKRASG GKLIFYDLRG EGVKLQVMAN SRNYKSEEEF IHINNKLRRG DIIGVQGNPG KTKKGELSII PYEITLLSPC LHMLPHLHFG LKDKETRYRQ RYLDLILNDF VRQKFIIRSK IITYIRSFLD ELGFLEIETP MMNIIPGGAV AKPFITYHNE LDMNLYMRIA PELYHKMLVV GGIDRVYEIG RQFRNEGIDL THNPEFTTCE FYMAYADYHD LMEITEKMVS GMVKHITGSY KVTYHPDGPE GQAYDVFDFP PFRRINMVEE LEKALGMKLP ETNLFETEET RKILDDICVA KAVECPPPRT TARLLDKLVG EFLEVTCINP TFICDHPQIM SPLAKWHRSK EGLTERFELF VMKKEICNAY TELNDPMRQR QLFEEQAKAK AAGDDEAMFI DENFCTALEY GLPPTAGWGM GIDRVAMFLT DSNNIKEVLL FPAMKPEDKK ENVATTDLE STTVGTSV
Sequence Length	597
Applicable Applications for KARS recombinant protein	SDS-PAGE
Antigen Species	Human
Tag Information	His-tag
Preparation and Storage	Can be stored at 4 degree C short term (1-2 weeks). For long term storage, aliquot and store at -20 degree C or -70 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for KARS recombinant protein	KARS, also known as Lysyl-tRNA synthetase, belongs to the class-II aminoacyl-tRNA synthetase family. It exists as both mitochondrial and cytoplasmic isoforms produced by alternative splicing, and thought to play a role in autoimmune diseases, such as polymyositis or dermatomyositis. This protein functions to catalyze the aminoacylation of tRNAs by their corresponding amino acids, thus linking amino acids with tRNA-contained nucleotide triplets. Recombinant human KARS protein, fused to His-tag at N-terminus, was expressed in E Coli and purified by using conventional chromatography.
Product Categories/Family for KARS recombinant protein	Enzymes & Proteases
References	Targoff I.N. et al. (1993) J. Clin. Invest. 91: 2556-2564.; Tolkunova E. et al. (2000) J. Biol. Chem. 275: 35063-35069.

NCBI AND UNIPROT INFORMATION

NCBI GI #	5031815
NCBI GeneID	3735
NCBI Accession #	NP_005539
NCBI GenBank Nucleotide #	NM_005548.2
UniProt Accession #	Q15046; O14946; Q96J25; Q9HB23; A8MSK1; D3DUK4
Molecular Weight	63.7 kDa (558aa)
NCBI Official Full Name	lysine--tRNA ligase isoform 2
NCBI Official Synonym Full Names	lysyl-tRNA synthetase
NCBI Official Symbol	KARS
NCBI Official Synonym Symbols	KRS; KARS1; KARS2; CMTRIB; DFNB89
NCBI Protein Information	lysine--tRNA ligase
UniProt Protein Name	Lysine--tRNA ligase
UniProt Gene Name	KARS
UniProt Synonym Gene Names	KIAA0070; LysRS

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/kars-recombinant-protein-e-coli-sds-page/48748>