

Recombinant Human KARS Protein

Catalog #	Source	Reactivity	Applications
CRP1843	Human cells	Human	E, WB, SDS-PAGE, MS

Description Recombinant Human KARS Protein is produced by our mammalian expression system and the target gene encoding Ala2-Val597 is expressed with a 6His tag at the C-terminus.

Form Liquid in a 0.2 µM filtered solution of 20mM Tris-HCl, 100mM NaCl, 1mM DTT, 20% Glycerol, pH8.0.

Gene Symbol KARS

Alternative Names KIAA0070; Lysine--tRNA ligase; Lysyl-tRNA synthetase; LysRS

Entrez Gene 3735 (Human)

SwissProt Q15046 (Human)

Purity Greater than 95% as determined by reducing SDS-PAGE.

Chemical Structure AAVQAAEVKV DGSEPKLSKN ELKRRLKAEK KVAEKEAKQK ELSEKQLSQA TAAATNHTTD
 NGVGPEESV DPNQYYKIRS QAIHQLKVNG EDPYPHKFHV DISLTDFIQK YSHLQPGDHL
 TDITLKVAGR IHAKRASGGK LIFYDLRGEG VKLQVMANSR NYKSEEEFIH INNKLRRGDI
 IGVQGNPGKT KKGELSIIPY EITLLSPCLH MLPHLHFGLK DKETRYRQRY LDLILNDFVR
 QKFIIRSKII TYIRSFLDEL GFLEIETPMM NIIPGGAVAK PFITYHNELD MNLYMRIAPE
 LYHKMLVVGG IDRVEIGRQ FRNEGIDLTH NPEFTTCEFYMAYADYHDLM EITEKMOVSGM
 VKHITGSYKV TYHPDGPEGQ AYDVDFTPPF RRINMVEELE KALGMKLPET NLFETEETRK
 ILDDICVAKA VECPPPRTTA RLLDKLVGEF LEVTCINPTF ICDHPQIMSP LAKWHRSEK
 LTERFELFVM KKEICNAYTE LNDPMRQRQL FEEQAKAKAA GDDEAMFIDE NFCTALEYGL
 PPTAGWGMGI DRVAMFLTDS NNIKEVLLFP AMKPEDKKEN VATTDTLEST TVGTSVVDHH
 HHHH

Application key: E- ELISA, WB- Western blot, IH- Immunohistochemistry, IF- Immunofluorescence, FC- Flow cytometry, IC- Immunocytochemistry, IP- Immunoprecipitation, ChIP- Chromatin Immunoprecipitation, EMSA- Electrophoretic Mobility Shift Assay, BL- Blocking, SE- Sandwich ELISA, CBE- Cell-based ELISA, RNAi- RNA interference

Species reactivity key: H- Human, M- Mouse, R- Rat, B- Bovine, C- Chicken, D- Dog, G- Goat, Mk- Monkey, P- Pig, Rb- Rabbit, S- Sheep, Z- Zebrafish

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Product Data Sheet

Quality Control	Endotoxin: Less than 0.1 ng/ μ g (1 IEU/ μ g) as determined by LAL test.
Directions for Use	Always centrifuge tubes before opening. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Storage/Stability	Store it at -20°C to -80°C for one year.

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