

Product Data Sheet

Recombinant Human KARS Protein

Catalog #	Source	Reactivity	Applications
CRP1843	Human cells	H	E, WB, SDS-PAGE, MS
Description	Recombinant Human KARS Protein is produced by 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 NGVGPEEESV DPNQYYKIRS QAIHQLKVNG EDPYPHKFHV DISLTDFIQK YSHLQPGDHL TDITLKVAGR IHAKRASGGK LIFYDLRGEG VKLQVMANSR NYKSEEEFIH INNKLRRGDI IGVQGNPGKT KKGELSIIPY EITLLSPCLH MLPHLHFGLK DKETRYRQRY LDLILNDFVR QKFIIRSKII TYIRSFLDEL GFLEIETPMM NIIPGGAVAK PFITYHNELD MNLYMRIAPE LYHKMLVVGG IDRVYEIGRQ FRNEGIDLTH NPEFTTCEF Y MAYADYHDLM EITEKMOVSGM VKHITGSYKV TYHPDGPEGQ AYDVDFTPPF RRINMVEELE KALGMKLPET NLFETEETRK ILDDICVAKA VECPPPRTTA RLLDKLVGEF LEVTCINPTF ICDHPQIMSP LAKWHRSKEG LTERFELFVM KKEICNAYTE LNDPMRQRQL FEEQAKAKAA GDDEAMFIDE NFCTALEYGL PPTAGWGMGI DRVAMFLTDS NNIKEVLLFP AMKPEDKKEN VATTDTEST 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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Quality Control	Endotoxin: Less than 0.1 ng/μg (1 IEU/μg) as determined by LAL test.
Directions for Use	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 μg/ml. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Storage/Stability	Store it at -20°C to -80°C for one year. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

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