

Recombinant Full Length Human RARS Protein

Cat. No. RARS-433HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human Arginyl tRNA synthetase with N-terminal proprietary tag. Predicted MW 98.71 kDa.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	660 amino acids
Description	Aminoacyl-tRNA synthetases catalyze the aminoacylation of tRNA by their cognate amino acid. Because of their central role in linking amino acids with nucleotide triplets contained in tRNAs, aminoacyl-tRNA synthetases are thought to be among the first proteins that appeared in evolution. Arginyl-tRNA synthetase belongs to the class-I aminoacyl-tRNA synthetase family.
Form	Liquid
Molecular Mass	98.710kDa inclusive of tags
AA Sequence	MDVLVSECSARLLQEEEEIKSLTAEIDRLKNCGLGASPN LEQLQEENLKLKYRLNIL RKSLQAERNKPTKNMINIISRL QEVFGHAIKAAYPDLENPPLLVTSPQQAKFGDYQC NSAMG ISQMLKTKEQKVNPREIAENITKHLDPNECIEKVEIAGPG FINVHLRKDFVSE QLTSLLVNGVQLPALGENKKVIVDFSS PNIAKEMHVGHLRSTIIGESISRLFEFAGYD VLRLNHVGD WGTQFGMLIAHLQDKFPDYLTVPPIGDLQVFYKESKKRF DTEEEFK KRAYQCVLLQGKNPDITKAWKLICDVSRLQELN KIYDALDVSLIERGESFYQDRMND

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IVKEFEDRGFVQVDDG RKIVFVPGCSIPLTIVKSDGGYTYDTSDLAAIKQRLFEEK AD
 MIIYVVDNGQSVHFQTIFAAAQMIGWYDPKVTRV FHAG FGVVLGEDKKKFKTRSGE
 TVRLMDLLGEGLKRSM DKLKEK ERDKVLTAEELNAAQTSVAYGCIKYADLSHNRLN
 DYIFSF DKMLDDRGNTAAYLLYAFTRIRSIARLANIDEEMLQKAAR ETKILLDHEKEW
 KLGRCILRFPEILQKILDDLFLHTLCDY IYELATAFTEFYDSCYCV EKDRQTGKILKVN
 MWRMLLCEA VAAVMAKGF DILGIKPVQRM

Purity Proprietary Purification

Storage Shipped on dry ice. Upon delivery aliquot and store at -80 centigrade. Avoid freeze / thaw cycles.

Storage Buffer pH: 8.00. Constituents: 0.79% Tris HCl, 0.31% Glutathione.

GENE INFORMATION

Gene Name [RARS arginyl-tRNA synthetase \[Homo sapiens \]](#)

Official Symbol [RARS](#)

Synonyms RARS; arginyl-tRNA synthetase; arginyl-tRNA synthetase, cytoplasmic; arginine tRNA ligase 1; cytoplasmic; DALRD1

Gene ID [5917](#)

mRNA Refseq [NM_002887](#)

Protein Refseq [NP_002878](#)

MIM [107820](#)

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UniProt ID

P54136

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