

Recombinant Human RARS

Cat. No. RARS-26535TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human Arginyl tRNA synthetase with N-terminal proprietary tag. Predicted MW 98.71kDa.
Species	Human
Source	Wheat Germ
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.
Molecular Weight	98.710kDa inclusive of tags
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.

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Sequences of amino acids

MDVLVSECSARLLQQEEEEIKSLTAEIDRLKNCGLGASPN LEQLQEENLKLKYRLNIL
 RKSLQAERNKPTKNMINIISRL QEVFGHAIKAAYPDLENPPLLVTSPQQAKFGDYQC
 NSAMG ISQMLKTKEQKVNPREIAENITKHLPDNECIEKVEIAGPG FINVHLRKDFVSE
 QLTSELLVNGVQLPALGENKKVIVDFSS PNIAKEMHVGHLRSTIIGESISRLFEFAGYD
 VLRLNHVGD WGTQFGMLIAHLQDKFPDYLTVSPPIGDLQVFYKESKKRF DTEEEFK
 KRAYQCVVLLQGKNPDITKAWKLICDVSRQELN KIYDALDVSLIERGESFYQDRMND
 IVKEFEDRGRFVQVDDG RKIVFVPGCSIPLTIVKSDGGYTYDTSDLAAIKQRLFEEK AD
 MIIYVVDNGQSVHFQTIFAAAQMIGWYDPKVTRVFHAG FGVVLGEDKKKFKTRSGE
 TVRLMDLLGEGLKRSMDKLKEK ERDKVLTAEELNAAQTSVAYGCIKYADLSHNRLN
 DYIFSF DKMLDDRGNTAAYLLYAFTRIRSIARLANIDEEMLQKAAR ETKILLDHEKEW
 KLGRCILRFPEILQKILDDLFLHTLCDY IYELATAFTEFYDSCYCVKDRQTGKILKVN
 MWRMLLCEA VAAVMAKGFILGKIPVQRM

Sequence

Belongs to the class-I aminoacyl-tRNA synthetase family.

Similarities

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

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MIM	107820
Uniprot ID	P54136
Chromosome Location	5q35.1
Pathway	Aminoacyl-tRNA biosynthesis, organism-specific biosystem; Aminoacyl-tRNA biosynthesis, conserved biosystem; Aminoacyl-tRNA biosynthesis, eukaryotes, organism-specific biosystem; Aminoacyl-tRNA biosynthesis, eukaryotes, conserved biosystem; Cytosolic tRNA aminoacylation, organism-specific biosystem;
Function	ATP binding; arginine binding; arginine-tRNA ligase activity; ligase activity; nucleotide binding;

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