



# Recombinant Human Arginine--tRNA ligase, cytoplasmic (RARS)

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| <b>Product Code</b>      | CSB-EP019344HU   |
| <b>Storage</b>           | Store at -20°C, for extended storage, conserve at -20°C or -80°C.  |
| <b>Uniprot No.</b>       | P54136   |
| <b>Product Type</b>      | Recombinant Protein  |
| <b>Immunogen Species</b> | Homo sapiens (Human)   |
| <b>Purity</b>            | >85% (SDS-PAGE)  |
| <b>Sequence</b>          | MDVLVSECSA RLLQQEEEEIK SLTAEIDRLK NCGCLGASPN LEQLQEENLK<br>LKYRLNILRK SLQAERNKPT KNMINIISRL QEVFGHAICA AYPDLENPPL<br>LVTPSQQAKF GDYQCNSAMG ISQMLKTKEQ KVNPREIAEN ITKHLDPNEC<br>IEKVEIAGPG FINVHLRKDF VSEQLTSLLV NGVQLPALGE NKKVIVDFSS<br>PNAKEMHVG HLRSTIIGES ISRLFEFAGY DVLRLNHVGD WGTQFGMLIA<br>HLQDKFPDYL TVSPPIGDLQ VFYKESKKRF DTEEEFKKRA YQCVVLLQGK<br>NPDITKAWKL ICDVSRQELN KIYDALDVSL IERGESFYQD RMNDIVKEFE<br>DRGFVQVDDG RKIVFVPGCS IPLTIVKSDG GYTYDTSDLA AIKQRLFEEK<br>ADMIIYVVDN GQSVHFQTI AAAQMIGWYD PKVTRVFHAG FGVVLGEDKK<br>KFKTRSGETV RLMDLLGEGE KRSMDKLKEK ERDKVLTAE LNAAQTSVAY<br>GCIKYADLSH NRLNDYIFS DKMLDDRNT AAYLLYAFTR IRSIARLANI<br>DEEMLQKAAR ETKILLDHEK EWKLGRCILR FPEILQKILD DLFLHTLCDY<br>IYELATAFTE FYDSCYCV EK DRQTGKILKV NMWRMLLCEA VAAVMAKGF<br>ILGIKPVQRM |
| <b>Source</b>            | E.coli   |
| <b>Target Names</b>      | RARS   |
| <b>Protein Names</b>     | Recommended name: Arginine--tRNA ligase, cytoplasmic EC= 6.1.1.19<br>Alternative name(s): Arginyl-tRNA synthetase Short name= ArgRS  |
| <b>Expression Region</b> | 1-660  |
| <b>Notes</b>             | Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.  |
| <b>Tag Info</b>          | Tag type will be determined during the manufacturing process.  |
| <b>Protein Length</b>    | Full length protein  |
| <b>Target Details</b>    | 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.   |
| <b>Reconstitution</b>    | We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final  |



concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

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**Shelf Life**

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.

Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.