

Recombinant Rat SYRC Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP52354

Size: 10ug, 100ug

Protein Name: Arginine--tRNA ligase, cytoplasmic (EC 6.1.1.19) (Arginyl-tRNA synthetase) (ArgRS)

Synonym: Rars1, Rars

UniProt ID: P40329

UniProt Link: www.uniprot.org/uniprotkb/P40329/entry

Species Source: Rat

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 660 AA

Molecular Weight: 76 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MDGLVAQCSARLLQQEKEIKSLTAEIDRLKNCSYLEASPSLEQLREENLKLKYRLNILRRSLQAERKR
PTKNMININSRLQELFGCAIKAAYPDLENPPLVVTPSQPKFGDYQCNSAMGISQMLKAKEQKVSPR
EIAENITKHLPNNEYIDRVEIAGPGFINVHLRKDFVSEQLTNLLVNGVQLPVLGENEKVIVDFSSPNI
AKEMHVGHLRSTIIGESMSRLFEFAGYNVLRNLNHVGDWGTQFGMLIAHLQDKFPDYLTVPPIGDLQAF
YKESKKRFDTEEEFKKRAYECVLLQSKNPDIMKAWNLCIDVSREEFNKIYDALDITLIERGESFYQD
RMKDIVKEFEDKGFVQVDDGRKIVFVPGCSVPLTIVKSDGGYTYDTSDLAAIKQRLFEEKANKIYVVD
NGQATHFQTVFAAAQMIGWYDPKVTRVAHVGFVVLGEDKKFKTRSGETVRLMDLLEEGLRRSM
DKLKEKERDKVLTEELKAAQTSVAYGCIKYADLSHNRLNDYVFSFDKMLDDRGNTAAYLLYAFTRIR
SIARLANIDEEMLQRAARETKIILDHEKEWKLGRCILRFPEILQKILDDLFLHTLCDYIYELATTFTEFYD
SCYCVEKDRQTGKVLKVNMMWRMLLCEAVAAVMAKGFILGIKPVQRM

3. Buffer Composition

Liquid format: PBS-based buffer containing 50% glycerol. Glycerol concentration can be customized upon customer request; please state special requirements when placing your order.

Lyophilized format: Buffer before lyophilization is PBS supplemented with 6% trehalose.

4. Storage Conditions

Upon receipt, store the product at -20 °C or -80 °C. Aliquot the product for on-demand use to preserve protein activity and prevent denaturation and inactivation caused by repeated freeze-thaw cycles.

5. Product Description

This product is recombinant Arginine--tRNA ligase, cytoplasmic (EC 6.1.1.19) (Arginyl-tRNA synthetase) (ArgRS) produced using the HEK293T eukaryotic cell expression system. It is suitable for in-vitro functional assays, protein-protein interaction studies, antibody preparation and other biomedical research applications.

Protein Function: Forms part of a macromolecular complex that catalyzes the attachment of specific amino acids to cognate tRNAs during protein synthesis. Modulates the secretion of AIMP1 and may be involved in generation of the inflammatory cytokine EMAP2 from AIMP1.

Subcellular Localization: Cytoplasm . Cytoplasm, cytosol .

6. Notes

- Avoid repeated freeze-thaw cycles to maintain protein stability and biological activity.
- Please specify special buffer-composition requirements at the time of order placement.
- For research use only. Not intended for clinical diagnosis, therapeutic use or commercial manufacturing.