

Recombinant Mouse SYRC Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51872

Size: 10ug, 100ug

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

Synonym: Rars1, Rars

UniProt ID: Q9D0I9

UniProt Link: www.uniprot.org/uniprotkb/Q9D0I9/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 660 AA

Molecular Weight: 76 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MDGLVAQCSARLLQQEREIKALTAIEDRLKNCGCLEASPSLEQLREENLKLKYRLNILRRSLQEERRK
PTKNMININSRLQEVFGCAIRAAYPDLENPPLIVTPSQPKFGDYQCNSAMGISQMLKAKEQKVSPR
EIAENITKHLPPNNKYIDKVEIAGPGFINVHLRKDFVSEQLTSLLVNGVQLPVLGDKEKVIVDFSSPNI
EMHVGHLRSTIIGESMSRLFEFAGYDVLRLNHVGDWGTQFGMLIAHLQDKFPDYLTVPPIGDLQAF
YKESKKRFDAADEEFKKRAYQCVVLLQSKNPDIMKAWNLCIDVSREEFKKIYDALDITLIERGESFYQD
RMKDIVKEFEDKGFVQVDDGRKIVFVPGCSVPLTIVKSDGGYTYDTSDLAAIKQRLFEEKANKIIVVD
NGQAIHFQTIFAAAQMIQWYDPKVTLVTHVGFVVLGEDKKKFKTRSGETVRLMDLLEEGLKRSMKD
LKEKERDKVLTEELKAAQTSVAYGCIKYADLSHNRLNDYIFSFDKMLDDRGNTAAYLLYAFTIRISIA
RLANIDEAMLQRAARETKILDHEKEWKLGRCLRFPEILQKILDDLFLHTLCDYIYELATTFTEFYDSCY
CVEKDRQTGKVLKVNMMWRMLLCEAVAAVMAKGFDILGIKPVQRM

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 (PubMed:12060739). 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.