

Recombinant Human SRF Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP50927

Size: 10ug, 100ug

Protein Name: Serum response factor (SRF)

Synonym: SRF

UniProt ID: P11831

UniProt Link: www.uniprot.org/uniprotkb/P11831/entry

Species Source: Human

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 508 AA

Molecular Weight: 52 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MLPTQAGAAAAALGRGSALGGSLNRTPTGRPGGGGGTRGANGGRVPGNGAGLGPGRLEREAAAAA
ATTPAPTAGALYSGSEGDSESGEEEEELGAERRGLKRSLSEMEIGMVVGGPEASAAATGGYGPVSG
AVSGAKPGKKTGRGRVKIKMEFIDNKLRRYTTFSKRKTGIMKKAYELSTLTGTQVLLLVASETGHVYTF
ATRKLQPMITSETGKALIQTCLNSPDSPPRSDPTTDQRMSATGFEETDLTYQVSESDSSGETKDTLK
PAFTVTNLPGTTSTIQTAPSTSTTMQVSSGSPFPITNYLAPVSASVSPSAVSSANGTVLKSTGSGPV
SGGLMQLPTSFTLMPGGAVAQQVPVQAIQVHQAPQQASPSRDSSTDLTQTSSSGTVTLPATIMTSS
VPTTVGGHMMYPSPHAVMYAPTSGLDGSLTVLNAFSQAPSTMQVSHSQVQEPGGVPQVFLTASS
GTVQIPVSAVQLHQMAVIGQQAGSSSNLTQLVNLDTAHSTKSE

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 Serum response factor (SRF) 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: SRF is a transcription factor that binds to the serum response element (SRE), a short sequence of dyad symmetry located 300 bp to the 5' of the site of transcription initiation of some genes (such as FOS). Together with MRTFA transcription coactivator, controls expression of genes regulating the cytoskeleton during development, morphogenesis and cell migration. The SRF-MRTFA complex activity responds to Rho GTPase-induced changes in cellular globular actin (G-actin) concentration, thereby coupling cytoskeletal gene expression to cytoskeletal dynamics. Required for cardiac differentiation and maturation.

Subcellular Localization: Nucleus .

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.