

Recombinant Mouse SRF Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51944

Size: 10ug, 100ug

Protein Name: Serum response factor (SRF)

Synonym: Srf

UniProt ID: Q9JM73

UniProt Link: www.uniprot.org/uniprotkb/Q9JM73/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 504 AA

Molecular Weight: 51 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MLPSQAGAAAAALGRGSALGGNLTPTGRPGGGGGTRGANGGRVPGNGAGLGQSRLEREAAAA
AAPTAGALYSGSEGDSESGEEELGAERRGLKRSLSSEMELGVVVGPEAAAAAAGGYGPVSGAVS
GAKPGKKTRGRVQIKMEFIDNKLRRYTTFSKRKTGIMKKAYELSTLTGTQVLLLVASETGHVYTFATR
KLQPMITSETGKALIQTCNLSPDSPPRSDPTTDQRMSATGFEEPDLTYQVSESDSSGETKDTLKPAF
TVTNLPGTTSTIQTAPSTSTTMQVSSGPSFPITNYLAPVSASVSPSAVSSANGTVLKSTGSGPVSSG
GLMQLPTSFTLMPGGAVAQQVPVQAIHVHQAPQQASPSRDSSTDLTQTSSSGTVTLPATIMTSSVP
TTVGGHMMYPSPHAVMYAPTSGLADGSLTVLNAFSQAPSTMQVSHSQVQEPGGVPQVFLTAPSGT
VQIPVSAVQLHQMAVIGQQAGSSSNLTQLQVNLDTATHSTKSE

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) (PubMed:24732378). Together with MRTFA transcription coactivator, controls expression of genes regulating the cytoskeleton during development, morphogenesis and cell migration (PubMed:12732141, PubMed:19350017, PubMed:24732378). 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 (PubMed:24732378). Required for cardiac differentiation and maturation (PubMed:15169892).

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.