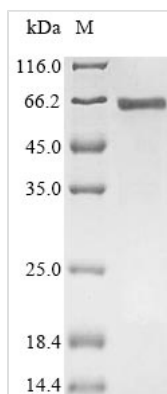




Recombinant Human Serum response factor (SRF)

Product Code	CSB-YP022659HU
Relevance	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). Required for cardiac differentiation and maturation.
Abbreviation	Recombinant Human SRF protein
Storage	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.
Uniprot No.	P11831
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 85% as determined by SDS-PAGE.
Sequence	MLPTQAGAAAAALGRGSALGGSLNRTPTGRPGGGGGTRGANGGRVPGNGAG LGPGRLEREAAAAAATTPAPTAGALYSGSEGDSSESSEEEELGAERRGLKRSL SEMEIGMVVGGPEASAAATGGYGPVSGAVSGAKPGKTRGRVKIKMEFIDNK LRRYTTFSKRKTGIMKKAYELSTLTGTQVLLLVASETGHVYTFATRKLQPMITS ETGKALIQTCLNSPDSPPRSDPTTDQRMSATGFEETDLTYQVSESDSSGETKD TLKPAFTVTNLPGTTSTIQTAPSTSTTMQVSSGPSFPITNYLAPVSASVSPSAVS SANGTVLKSTGSGPVSSGGLMQLPTSFTLMPGGAVAQQVPVQAIQVHQAPQ QASPSRDSSTDLTQTSSSGTVTLPATIMTSSVPTTVGGHMMYPSPHAVMYAP TSGLGDGSLTVLNAFSQAPSTMQVSHSQVQEPGGVPQVFLTASSGTQVIPVS AVQLHQMAVIGQQAGSSSNLTELQVVNLDTAHSTKSE
Research Area	Cardiovascular
Source	Yeast
Target Names	SRF
Protein Names	Recommended name: Serum response factor Short name= SRF
Expression Region	1-508aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-tagged
Mol. Weight	53.6 kDa
Protein Length	Full Length
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

The expression region of this recombinant Human SRF covers amino acids 1-508. The theoretical molecular weight of the SRF protein is 53.6 kDa. Expression of this SRF protein is conducted in yeast. The SRF gene fragment has been modified by fusing the N-terminal 6xHis tag, providing convenience in detecting and purifying the recombinant SRF protein during the following stages.

The human serum response factor (SRF) is a transcription factor that regulates the expression of genes involved in various cellular processes, including cell growth, differentiation, and response to extracellular signals, by binding to specific DNA sequences known as serum response elements (SREs). SRF is also a key player in controlling actin cytoskeleton dynamics. It interacts with cofactors, such as myocardin-related transcription factors (MRTFs), to modulate the expression of genes involved in actin polymerization and cellular motility. SRF is essential for the regulation of cell proliferation and differentiation in various tissues and cell types, including muscle cells, neurons, and fibroblasts. SRF is critical for embryonic development and tissue morphogenesis. It is involved in the formation of various organs and tissues during development. Dysregulation of SRF is associated with various diseases, including cancer and cardiovascular disorders. Research on SRF spans molecular and cellular biology, developmental biology, and disease-related studies.

Reconstitution

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.

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.