

## Active Recombinant Human SRF, His-tagged

Cat. No. SRF-102H Lot. No. (See product label)

### SPECIFICATION

**Product Overview** The recombinant Human SRF, His-tagged was expressed in baculovirus system and purified by affinity chromatography in combination with FPLC columns.

**Species** Human

**Source** Insect Cells

**Description** This gene encodes a ubiquitous nuclear protein that stimulates both cell proliferation and differentiation. It is a member of the MADS (MCM1, Agamous, Deficiens, and SRF) box superfamily of transcription factors. This protein binds to the serum response element (SRE) in the promoter region of target genes. This protein regulates the activity of many immediate-early genes, for example c-fos, and thereby participates in cell cycle regulation, apoptosis, cell growth, and cell differentiation. This gene is the downstream target of many pathways; for example, the mitogen-activated protein kinase pathway (MAPK) that acts through the ternary complex factors (TCFs).

**Form** The protein is in 20mM Tris-HCl pH7.9, 100mM NaCl, 0.2mM EDTA, 1mM DTT and 20% glycerol.

**Bio-activity** 1 unit equals 1 nanogram of purified protein. 100 units are sufficient for a protein-protein interaction assay.

**Molecular Mass** 53.3 kDa.

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**AA Sequence**

MLPTQAGAAA ALGRGSALGG SLNRTPTGRP GGGGGTRGAN GGRVPGNGAG  
 LGPGRLEREA AAAAATTPAP TAGALYSGSE GDSESGEEEE LGAERRGLKR  
 SLSEMEIGMV VGGPEASAAA TGGYGPVSGA VSGAKPGKKT RGRVKIKMEF  
 IDNKLRRYTT FSKRKTGIMK KAYELSTLTG TQVLLLVASE TGHVYTFATR  
 KLQPMITSET GKALIQTCLN SPDSPPRSDP TTDQRMSATG FEETDLTYQV  
 SESDSSGETK DTLKPAFTVT NLPGTTSTIQ TAPSTSTTMQ VSSGSPFPIT  
 NYLAPVSASV SPSAVSSANG TVLKSTGSGP VSSGGLMQLP TSFTLMPGGA  
 VAQQVPVQAI QVHQAPQQAS PSRDSSTDLT QTSSSGTVTL PATIMTSSVP  
 TTVGGHMMYP SPHAVMYAPT SGLGDGSLTV LNAFSQAPST MQVSHSQVQE  
 PGGVPQVFLT ASSGTVQIPV SAVQLHQMAV IGQQAGSSSN LTELQVVNLD  
 TAHSTKSE

**Purity**

Greater than 90% as determined by SDS-PAGE.

**Applications**

This protein has been applied in protein-DNA and protein-protein interaction assays.

**Storage**

Stored at -70°C before use. Avoid repeated freeze thaw cycles.

## GENE INFORMATION

**Gene Name**

SRF serum response factor (c-fos serum response element-binding transcription factor) [ Homo sapiens ]

**Official Symbol**

SRF

**Synonyms**

SRF; serum response factor (c-fos serum response element-binding transcription factor); serum response factor; MCM1;

**Gene ID**

6722

**mRNA Refseq**

NM\_003131

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<b>Protein Refseq</b>	NP_000537
<b>MIM</b>	191170
<b>UniProt ID</b>	P04637
<b>Chromosome Location</b>	17p13.1
<b>Pathway</b>	Activation of BH3-only proteins, organism-specific biosystem; Activation of NOXA and translocation to mitochondria, organism-specific biosystem; Activation of PUMA and translocation to mitochondria, organism-specific biosystem; Amyotrophic lateral sclerosis (ALS), organism-specific biosystem; Amyotrophic lateral sclerosis (ALS), conserved biosystem; Androgen Receptor Signaling Pathway, organism-specific biosystem; Apoptosis, organism-specific biosystem;
<b>Function</b>	ATP binding; DNA binding; DNA strand annealing activity; MDM2 binding; RNA polymerase II core promoter proximal region sequence-specific DNA binding transcription factor activity involved in positive regulation of transcription; RNA polymerase II transcription factor binding; chaperone binding; chromatin binding; copper ion binding; damaged DNA binding; enzyme binding; histone acetyltransferase binding; histone deacetylase regulator activity; identical protein binding; metal ion binding; p53 binding; protease binding; protein N-terminus binding; protein binding; protein heterodimerization activity; protein kinase binding; protein phosphatase 2A binding; sequence-specific DNA binding transcription factor activity; transcription factor binding; transcription regulatory region DNA binding; ubiquitin protein ligase binding; zinc ion binding;

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