

# Recombinant human HSF1 protein

Catalog Number: HSF0801

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-529aa

### UniProt No.

Q00613

### NCBI Accession No.

NP\_005517.1

### Alternative Names

Heat shock factor 1, Heat shock transcription factor 1(HSTF), Heat shock factor 1, HSF1, Heat shock factor 1 Heat shock factor protein 1, Heat shock transcription factor 1, HSTF 1.

## PRODUCT SPECIFICATION

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### Molecular Weight

59.4 kDa (549aa)

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid. In Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol, 0.1mM PMSF

### Purity

> 80% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

Heat shock factor 1 (HSF1) is a major transactivator of heat shock proteins in response to environmental changes, and it is also involved in oogenesis, spermatogenesis, and placental development. Best known for its involvement in heat shock response, Hsf1p regulates the transcription of hundreds of targets, including genes involved in protein folding, detoxification, energy generation, carbohydrate metabolism, and cell wall organization. Recombinant HSF1, fused to His tag, was expressed in E. coli and purified by using conventional

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chromatography techniques.

## Amino acid Sequence

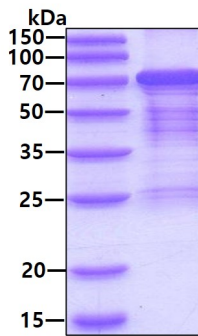
<MGSSHHHHHH SGLVPRGSH> MDLPVGPAA GPSNVPAFLT KLWTLVSDPD TDALICWSPS GNSFHVFDQG  
QFAKEVLPKY FKHNNMASFV RQLNMYGFRK VWHIEQGGLV KPERDDTEFQ HPCFLRGQEQ LLENIKRKVT SVSTLKSEDI  
KIRQDSVTKL LTDVQLMKGK QECMDSKLLA MKHENEALWR EVASLRQKHA QQQKVVNCLI QFLISLVQSN RILGVKRRKIP  
LMLNDSGSAH SMPKYSRQFS LEHVHGSGPY SAPSPAYSSS SLYAPDAVAS SGPIISDITE LAPASPMASP GGSIDERPLS  
SSPLVRVKEE PPSPPQSPRV EEASPGRPSS VDTLLSPTAL IDSILRESEP APASVTALTD ARGHTDTEGR PPSPPPTSTP  
EKCLSVACL DKNELSDHLDA MDSNLDNLQT MLSSHGFSVD TSALLDLFSP SVTVPDMSLP DLDSSLASIQ ELLSPQEPPR  
PPEAENSSPD SGKQLVHYTA QPLFLLDPGS VDTGSNDLPV LFELGEGSYF SEGDFGAEDP TISLLTGSEP PKAKDPTVS

## General References

Turk V, et al (1991) FEBS Lett. 285 (2): 213-9.  
Jarvinen M, et al, (1988) Acta Histochem. 82 (1): 5-18

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.