

Recombinant human HSF1 protein

Catalog Number: HSF0801

PRODUCT INFORMATION

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

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

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

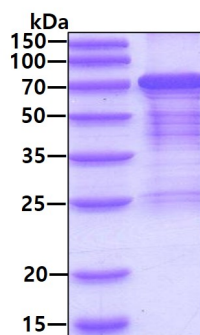
<MGSSHHHHHH SSGLVPRGSH> MDLPVGPAA GPSNVPAFLT KLWTLVSDPD TDALICWSPS GNSFHVFDQG
QFAKEVLPHY FKHNNMASFV RQLNMYGFRK VVHIEQGGLV KPERDDTEFQ HPCFLRGQEQ LLENIKRKVT SVSTLKSEDI
KIRQDSVTKL LTDVQLMKGK QECMDSKLLA MKHENEALWR EVASLRQKHA QQQKVVNKLI QFLISLVQSN RILGVKRKIP
LMLNDSGSAH SMPKYSRQFS LEHVHGSGPY SAPSPAYSSS SLYAPDAVAS SGPIISDITE LAPASPMASP GGSIDERPLS
SSPLVRVKEE PPSPQSPRV EEASPGRPSS VDTLLSPTAL IDSILRESEP APASVTALTD ARGHTDTEGR PPSPPTSTP
EKCLSVACLD KNELSDHLDA MDSNLDNLQT MLSSHGFSVD TSALLDLFSP SVTVPDMSLP DLDSSLASIQ ELLSPQEPPR
PPEAENSSPD SGKQLVHYTA QPLFLLDPGS VDTGSNDLPV LFELGEGSYF SEG DGFAEDP 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.