

Recombinant Human Heat Shock Transcription Factor 1, His-tagged

Cat. No. HSF1-327H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant HSF1, fused to His tag, was expressed in E.coli and purified by using conventional chromatography techniques (549 aa, 59.4 kDa).
Species	Human
Source	E.coli
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.
Formulation	Liquid. In 20 mM Tris-HCl buffer (pH 8.0) containing 1 mM DTT, 50 mM NaCl.
Molecular Weight	59.4 kDa (549aa).
Purity	> 75% by SDS – PAGE.
Concentration	1 mg/ml (determined by Bradford assay).
Sequence	MGSSHHHHHH SSGLVPRGSH MDLPVGPAA GPSNVPAFLT KLWTLVSDPD TDALICWSPS GNSFHVFDQG QFAKEVLPHY FKHNNMASFV RQLNMYGFRK

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VVHIEQGGLV KPERDDTEFQ HPCFLRGQEQ LLENIKRKVT SVSTLKSEDI
 KIRQDSVTKL LTDVQLMKGK QECMDSKLLA MKHENEALWR EVASLRQKHA
 QQQKVVNKLI QFLISLVQSN RILGVKRKIP LMLNDSGSAH SMPKYSRQFS
 LEHVHSGSPY SAPSPAYSSS SLYAPDAVAS SGPIISDITE LAPASPMASP
 GGSIDERPLS SSPLVRVKEE PPSPPQSPRV EEASPGRPSS VDTLLSPTAL
 IDSILRESEP APASVTALTD ARGHTDTEGR PPSPPPTSTP EKCLSVACLD
 KNELSDHLDA MDSNLDNLQT MLSSHGFSVD TSALLDLFSP SVTVPDMSLP
 DLSSSLASIQ ELLSPQEPPR PPEAENSSPD SGKQLVHYTA QPLFLDPGS
 VDTGSNDLPV LFELGEGSYF SEGDGFAEDP TISLLTGSEP PKAKDPTVS

Storage

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name

[HSF1](#)

Synonyms

HSF1; heat shock transcription factor 1; HSTF1; HSF 1.

Gene ID

[3297](#)

mRNA Refseq

[NM_005526.2](#)

Protein Refseq

[NP_005517.1](#)

MIM

[140580](#)

UniProt ID

[Q00613](#)

**Chromosome
Location**

8q24.3

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Function

protein binding; sequence-specific DNA binding; transcription factor activity.

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