

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 MDLPVGPGAA GPSNVPAFLT KLWTLVSDPD TDALICWSPS GNSFHVFDQG QFAKEVLPHY FKHNNMASFV RQLNMYGFRK

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VVHIEQGGLV KPERDDTEFQ HPCFLRGQEQ LLENIKRKVT SVSTLKSEDI
 KIRQDSVTKL LTDVQLMKGK QECMSKLLA MKHENEALWR EVASLRQKHA
 QQQKVVNKLI QFLISLVQSN RILGVKRKIP LMLNDSGSAH SMPKYSRQFS
 LEHVHSGSPY SAPSPAYSSS SLYAPDAVAS SGPIISDITE LAPASPMASP
 GGSIDERPLS SSPLVRVKEE PPSPQSPRV EEASPGRPSS VDTLLSPTAL
 IDSILRESEP APASVTALTD ARGHTDTEGR PPSPPTSTP EKCLSVACLD
 KNELSDHLDA MDSNLDNLQT MLSSHGFSVD TSALLDLFSP SVTVPDMSLP
 DLDSSLASIQ 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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