

Recombinant Human HSF1, GST-tagged

Cat. No. HSF1-7050H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length human HSF1 was expressed in E. coli cells using a N-terminal GST tag.
Species	Human
Source	E.coli
ProteinLength	Full length
Description	HSF1 is a member of the heat shock transcription factor family. Protein-damaging stress lead to the activation of HSF1 which binds to upstream regulatory sequences in the promoters of heat shock genes leading to enhanced heat shock gene expression. The activation of HSF1 proceeds through a multi-step pathway, involving a monomer-to-trimer transition, nuclear accumulation and extensive posttranslational modifications. HSF1 activity is regulated at different levels by heat shock proteins and co-chaperones and is modulated further by a number of mechanisms involving other stress-regulated aspects of cell metabolism.
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Molecular Mass	~96 kDa
Purity	>90%

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Applications	Kinase Assay, Western Blot
Storage	Store at –70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. Avoid freeze/thaw cycles.
Concentration	0.2µg/µl
GENE INFORMATION	
Gene Name	HSF1 heat shock transcription factor 1 [Homo sapiens]
Official Symbol	HSF1
Synonyms	HSF1; heat shock transcription factor 1; heat shock factor protein 1; HSTF1; HSF 1; HSTF 1;
Gene ID	3297
mRNA Refseq	NM_005526
Protein Refseq	NP_005517
MIM	140580
UniProt ID	Q00613
Chromosome Location	8q24.3
Pathway	Legionellosis, organism-specific biosystem; Legionellosis, conserved biosystem;
Function	protein binding; sequence-specific DNA binding; sequence-specific DNA binding

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transcription factor activity;

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