

## Recombinant Human HSF1, GST-tagged

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant full length human HSF1 was expressed in E. coli cells using a N-terminal GST tag.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	Full length
<b>Description</b>	<p>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.</p>
<b>Form</b>	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.
<b>Molecular Mass</b>	~96 kDa
<b>Purity</b>	>90%

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

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transcription factor activity;

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