

# Recombinant Human Heat Shock Transcription Factor 1, GST-tagged

**Cat. No.** HSF1-4849H    **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>Description</b>       | 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. |
| <b>Applications</b>      | Kinase Assay; Western Blot                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Molecular Weight</b>  | 96 kDa                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Expression System</b> | E. coli                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Form</b>              | Recombinant protein stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, 25% glycerol.                                                                                                                                                                                                                                                                                           |
| <b>Purity</b>            | >90%                                                                                                                                                                                                                                                                                                                                                                                                                                 |

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|                      |                                                                                                                                                                                                                                         |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Concentration</b> | 0.2 ug/ul                                                                                                                                                                                                                               |
| <b>Sequences</b>     | Full length                                                                                                                                                                                                                             |
| <b>Storage</b>       | Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles. |
| <b>Full Length</b>   | Full L.                                                                                                                                                                                                                                 |

## GENE INFORMATION

|                            |                                                                                                                                    |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| <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; HSTF1; heat shock factor protein 1; HSF 1; HSTF 1; OTTHUMP00000228553; OTTHUMP00000228555 |
| <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                                                                                                                               |

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**Function**

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

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