

**HSF1, 1-529 aa, Human, His-tagged, Recombinant, E.coli**

**Cat.NO.: TP02514**

3th Edition

**Synonyms:**Heat shock factor 1, Heat shock transcription factor 1(HSTF)

**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. Recombinant HSF1, fused to His tag, was expressed in E.coli and purified by using conventional chromatography techniques.

**Form:**Liquid. In 20 mM Tris-HCl buffer (pH 8.0) containing 1 mM DTT,50 mM NaCl

**Molecular Weight:**59.4kDa (549aa)

**Sequences:**

MGSSHHHHHSSGLVPRGSHMDLPVGPAAAGPSNVPAFLTKLWTLVSDPDTDALICWSPSGNSFHVFDQGQFAK  
EVLPKYFKHNNMASFVRQLNMYGFRKVVHIEQGGLVKPERDDTEFQHPCFLRGQEQLLENIKRKVTSVSTLKSEDI  
KIRQDSVTKLLTDVQLMKGKQECMDSKLLAMKHENEALWREVASLRQKHAQQQKVVNKLIQFLISLVQSNRILGVK  
RKIPLMLNDSGSAHSMPKYSRQFSLEHVHGSGPYSPAYSSSSLYAPDAVASSGPIISDITELAPASPMASPGGS  
IDERPLSSSPLVRVKEEPPSPQSPRVEEASPGRPSSVDTLLSPTALIDSILRESEPPASVTALTDARGHTDTEGRP  
PSPPTSTPEKCLSVACLKDNELSDHLDAMDSNLDNLQTMLSSHGFSVDTSALLDLFSPSVTPDMSLPDLSSLA  
SIQELLSPQEPPRPEAENSSPDSGKQLVHYTAQPLFLLDPGSVDTGSNDLPVLFELGEGSYFSEGDGFAEDPTISL  
LTGSEPPKAKDPTVS

**Purity:**> 95% by HPLC

**Concentration:**1 mg/ml (determined by Bradford assay)

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**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.