

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:

MGSSHHHHHHSSGLVPRGSHMDLPVGPGAAGPSNVPAFLTKLWTLVSDPDTDALICWSPSGNSFHVFDQGQFAK
EVLPKYFKHNNMASFVRQLNMYGFRKVVHIEQGGLVKPERDDTEFQHPCFLRGQEQLLENIKRKVTSVSTLKSEDI
KIRQDSVTKLLTDVQLMKGKQECMDSKLLAMKHENEALWREVASLRQKHAQQQKVVNKLIQFLISLVQSNRILGVK
RKIPLMLNDSGSAHSMPKYSRQFSLEHVHGSGPYSPAPAYSSSSLYAPDAVASSGPIISDITELAPASPMASPGGS
IDERPLSSSPLVRVKEEPPSPQSPRVEEASPGRPSSVDTLLSPTALIDSILRESEAPASVTALTDARGHTDTEGRP
PSPPTSTPEKCLSVACLDKNELSDHLDAMDSNLDNLQTMLSSHGFSVDTSALLDLFSPSVTVPDMSLPDLSSLA
SIQELLSPQEPPRPPEAENSSPDGKQLVHYTAQPLFLLDPGSVDTGSNDLPVLFELGEGSYFSEGDGFAEDPTISL
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.