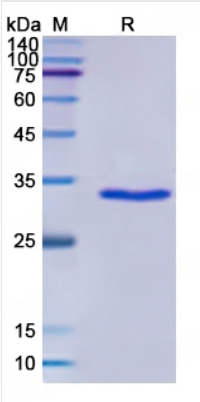
HSF1 Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	HSF1, Recombinant Protein
Full Product Name	Recombinant Human HSF1, N-His
Product Gene Name	HSF1 recombinant protein
Product Synonym Names	Heat shock factor protein 1; HSF 1; HSTF 1; HSF1; HSTF1; Heat shock transcription factor 1
Host	E coli
Form/Format	Lyophilized from a solution in PBS pH7.4, 0.02% NLS, 1mM EDTA, 4% Trehalose, 1% Mannitol.
Purity/Purification	>90% as determined by SDS-PAGE
Preparation and Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 degree C for one week. Store at -20 to -80 degree C for twelve months from the date of receipt.
Molecular Weight	57,260 Da
Sequence Positions	Val15-Pro288
Chromosome Location	Chromosome: 8; NC_000008.10 (145515270..145538385). Location: 8q24.3
OMIM	140580
3D Structure	ModBase 3D Structure for Q00613
Species	Human
Reconstitution	Reconstitute in sterile water for a stock solution.
Product Categories/Family for HSF1 recombinant protein	Recombinant Proteins
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for HSF1 recombinant protein	SDS-PAGE (SDS), Western Blot (WB), ELISA (EIA), Immunogen
Related Product Information for HSF1 recombinant protein	MBS1574411 is a recombinant protein targeting HSF1. Also known as Recombinant Human HSF1, N-His. Host: E coli.
Other Notes	Small volumes of HSF1 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



SDS-Page of HSF1 recombinant protein
SDS PAGE for recombinant Human HSF1

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HSF1. It may not necessarily be applicable to this product.

NCBI GI #	5031767
NCBI GeneID	3297
NCBI Accession #	NP_005517.1
UniProt Primary Accession #	Q00613
UniProt Secondary Accession #	Q53XT4; A8K4L0; A8MW26
UniProt Related Accession #	Q00613
GenBank Nucleotide #	NM_005526.2
NCBI Official Full Name	heat shock factor protein 1
NCBI Official Synonym Full Names	heat shock transcription factor 1
NCBI Official Symbol	HSF1
NCBI Official Synonym Symbols	HSTF1
UniProt Protein Name	Heat shock factor protein 1
UniProt Synonym Protein Names	Heat shock transcription factor 1
Protein Family	Heat shock factor protein
UniProt Gene Name	HSF1
UniProt Synonym Gene Names	HSTF1; HSF 1; HSTF 1
UniProt Entry Name	HSF1_HUMAN
NCBI Protein Information	heat shock factor protein 1; HSF 1; HSTF 1
NCBI Summary for HSF1	The product of this gene is a heat-shock transcription factor. Transcription of heat-shock genes is rapidly induced after temperature stress. Hsp90, by itself and/or associated with multichaperone complexes, is a major repressor of this gene. [provided by RefSeq, Jul 2008]

UniProt Comments for HSF1	HSF1: a transcription factor that specifically binds heat shock promoter elements (HSE) and activates transcription. Induced in response to heat, heavy metals, and oxidative stress. In higher eukaryotes, HSF is unable to bind to HSEs unless the cells are stressed. Becomes phosphorylated in response to stress, forming homotrimers that bind DNA and activate transcription. Phosphorylation by PLK1 enhances nuclear translocation, and phosphorylation by CaMKII enhances transactivation. Phosphorylation by GSK3 and ERK1 induces binding by 14-3-3 and sequestration in the cytoplasm. In addition, during attenuation from the heat shock response, HSF1 is repressed by direct binding of Hsp70, HSP40, and HSF binding protein 1 (HSBP1). Four alternatively spliced isoforms have been described. Protein type: DNA-binding; Transcription factor Chromosomal Location of Human Ortholog: 8q24.3 Cellular Component: nucleoplasm; protein complex; pronucleus; cytoplasm; cytosol Molecular Function: protein binding; chromatin binding; transcription factor activity Biological Process: negative regulation of cell proliferation; embryonic placenta development; embryonic process involved in female pregnancy; mRNA transcription; female meiosis; defense response; spermatogenesis; response to lipopolysaccharide; positive regulation of transcription from RNA polymerase II promoter; negative regulation of tumor necrosis factor production; positive regulation of multicellular organism growth; negative regulation of transcription from RNA polymerase II promoter; protein amino acid phosphorylation
Research Articles on HSF1	**1.** UVA irradiation could stimulate the activation of HSF1 and increase HSP70 protein expression in HaCaT cells, which inhibited activation of JNK, thus preventing apoptosis.
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