

Heat Shock Transcription Factor 1 (HSF1) Recombinant Protein | HSF1 recombinant protein

Recombinant Heat Shock Transcription Factor 1 (HSF1)

CATALOG # AAA135485	HOST E.coli	REACTIVITY Homo sapiens (Human)	APPLICATIONS Western Blot, SDS-Page
-------------------------------	-----------------------	---	---

PRODUCT SYNONYMS

Heat Shock Transcription Factor 1 (HSF1); Recombinant Heat Shock Transcription Factor 1 (HSF1); HSF1 recombinant protein

PRODUCT SPECIFICATIONS

Host	E.coli
Reactivity	Homo sapiens (Human)
Purity/Purification	> 90%
Form/Format	20mM Tris, 150mM NaCl, pH8.0, containing 0.01% SKL, 5% Trehalose.
Concentration	Original Concentration: 100ug/mL (varies by lot)
Sequence	VPAFLTKLWT LVSDPDTDAL ICWSPSGNSF HVFDQGQFAK EVLPKYFKHN NMAFVRQLN MYGFRKVVHI EQGGLVKPER DDTEFQHPCF LRGQEQLLEN IKRKVTSVST LKSEDIKIRQ DSVTKLLTDV QLMKGKQECM DSKLLAMKHE NEALWREVAS LRQKHAQQQK VVNKLIQFLI SLVQSNRILG VKRKIPLMLN DSGSAHSMKP YSRQFSLEHV HGSGPYAPS PAYSSSLYA PDAVASSGPI ISDITELAPA SPMASPGGSI DERP
Applicable Applications for HSF1 recombinant protein	WB (Western Blot), SDS-PAGE, Immunogen, Positive Control
Source	Prokaryotic expression
Residues	Val15~Pro288
Tags	N-terminal His Tag
Subcellular Location	Nucleus, Cytoplasm, Chromosome
Traits	Freeze-dried powder
Predicted isoelectric point	9.1
Phenomenon explanation	The possible reasons that the actual band size differs from the predicted are as follows: 1.Splice variants: Alternative splicing may create different sized proteins from the same gene. 2. Relative charge: The composition of amino acids may affects the charge of the protein. 3. Post-translational modification: Phosphorylation, glycosylation, methylation etc. 4. Post-translation cleavage: Many proteins are synthesized as pro-proteins, and then cleaved to give the active form. 5. Polymerization of the target protein: Dimerization, multimerization etc.
Usage	Reconstitute in ddH2O to a concentration of 0.1-1.0 mg/mL. Do not vortex.

Preparation and Storage

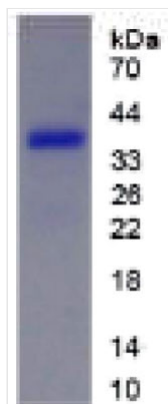
Storage:

Avoid repeated freeze/thaw cycles.
Store at 2-8 degree C for one month.
Aliquot and store at -80 degree C for 12 months.

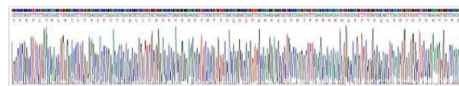
Stability Test:

The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

IMAGES



Sequence



SDS-PAGE

NCBI AND UNIPROT INFORMATION

NCBI GI #	5031767
NCBI GeneID	3297
NCBI Accession #	NP_005517.1
NCBI GenBank Nucleotide #	NM_005526.2
UniProt Accession #	Q00613; Q53XT4; A8K4L0; A8MW26
Molecular Weight	Predicted Molecular Mass: 34.3kDa Accurate Molecular Mass: 38kDa as determined by SDS-PAGE reducing conditions.
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
NCBI Protein Information	heat shock factor protein 1; HSF 1; HSTF 1
UniProt Protein Name	Heat shock factor protein 1
UniProt Gene Name	HSF1
UniProt Synonym Gene Names	HSTF1; HSF 1; HSTF 1
UniProt Entry Name	HSF1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.