

## Recombinant Human HSPA1A protein, His-tagged

**Cat. No.** HSPA1A-526H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human HSPA1A(amino acids 1-641) fused with His tag at N-terminal was expressed in E. coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	1-641 a.a.
<b>Description</b>	Hsp70 is a human heat shock protein. Hsp70 is an important part of the cell's machinery for protein folding, and help to protect cells from stress. In most species, there are many proteins that belong to the hsp70 family. Some of these are only expressed under stress conditions, while some are present in cells under normal growth conditions and are not heat-inducible. They can be found in different cellular compartments (nuclear, cytosolic, mitochondrial, endoplasmic reticulum, etc.
<b>Form</b>	Liquid. 20mM Tris pH7.5, 2mM DTT
<b>Molecular Mass</b>	72.2kDa (661 aa), confirmed by MALDI-TOF.
<b>AA Sequence</b>	MGSSHHHHHH SSGLVPRGSH MAKAAAIGID LGTTYSCVGV FQHGKVEIIA NDQGNRTTPS YVAFTDTERL IGDAAKNQVA LNPQNTVFDA KRLIGRKFQDPVVQSDMKHW PFQVINDGDK PKVQVSYKGD TKAFYPEEIS SMVLTKMKEI AEAYLGYPT NAVITVPAYF NDSQRQATKD AGVIAGLNVL RIINEPTAAAIAYGLDRTGK GERNVLIFDL GGGTFDVSIL TIDDGIFEVK

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

ATAGDTHLGG EDFDNRLVNH FVEEFKRKHK KDISQNKRAV RRLRTACERA  
 KRTLSSSTQASLEIDSLFEG IDFYTSITRA RFEELCSDLF RSTLEPVEKA  
 LRDAKLDKAQ IHDLVLVGGG TRIPKVQKLL QDFFNGRDLN KSINPDEAVA  
 YGAAVQAAILMGDKSENVQD LLLLDVAPLS LGLETAGGVM TALIKRNSTI  
 PTKQTQIFTT YSDNQPGVLI QVYEGERAMT KDNLLGRFE LSGIPPAPRG  
 VPQIEVTFDIDANGILNVTA TDKSTGKANK ITITNDKGRL SKEEIERMVQ  
 EAEKYKAEDE VQRERVSANK ALESYAFNMK SAVEDEGLKG KISEADKKKV  
 LDKCQEVISWLDANTLAEKD EFEHKRKELE QVCNPIISGL YQGAGGPGPG  
 GFQAQGPCKGG SGSGPTIEEV D

**Purity** > 95% by SDS - PAGE

**Storage** Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles.

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

## GENE INFORMATION

**Gene Name** [HSPA1A heat shock 70kDa protein 1A \[ Homo sapiens \]](#)

**Official Symbol** [HSPA1A](#)

**Synonyms** HSPA1A; heat shock 70kDa protein 1A; heat shock 70kD protein 1A , HSPA1; heat shock 70 kDa protein 1A/1B; HSP70 1; HSP70-1/HSP70-2; HSP70.1/HSP70.2; heat shock 70kD protein 1A; heat shock-induced protein; heat shock 70 kDa protein 1/2; dnaK-type molecular chaperone HSP70-1; HSP72; HSPA1; HSP70I; HSPA1B; HSP70-1; HSP70-1A; FLJ54303; FLJ54370; FLJ54392; FLJ54408; FLJ75127;

**Gene ID** [3303](#)

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<b>mRNA Refseq</b>	NM_005345
<b>Protein Refseq</b>	NP_005336
<b>MIM</b>	140550
<b>UniProt ID</b>	P0DMV8
<b>Chromosome Location</b>	6p21.3
<b>Pathway</b>	Androgen Receptor Signaling Pathway, organism-specific biosystem; Antigen processing and presentation, organism-specific biosystem; Antigen processing and presentation, conserved biosystem; Apoptosis Modulation by HSP70, organism-specific biosystem; Direct p53 effectors, organism-specific biosystem; Endocytosis, organism-specific biosystem; Endocytosis, conserved biosystem;
<b>Function</b>	ATP binding; ATPase activity; ATPase activity, coupled

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