Recombinant Human HSPA1A protein, His-tagged

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

SPECIFICATION

Product Overview	Recombinant Human HSPA1A(amino acids 1-641) fused with His tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	1-641 a.a.
Description	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.
Form	Liquid. 20mM Tris pH7.5, 2mM DTT
Molecular Mass	72.2kDa (661aa), confirmed by MALDI-TOF.
AA Sequence	MGSSHHHHHH SSGLVPRGSH MAKAAAIGID LGTTYSCVGV FQHGKVEIIA NDQGNRTTPS YVAFTDTERL IGDAAKNQVA LNPQNTVFDA KRLIGRKFGDPVVQSDMKHW PFQVINDGDK PKVQVSYKGD TKAFYPEEIS SMVLTKMKEI AEAYLGYPVT NAVITVPAYF NDSQRQATKD AGVIAGLNVL RIINEPTAAAIAYGLDRTGK GERNVLIFDL GGGTFDVSIL TIDDGIFEVK

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	ATAGDTHLGG EDFDNRLVNH FVEEFKRKHK KDISQNKRAV RRLRTACERA KRTLSSSTQASLEIDSLFEG IDFYTSITRA RFEELCSDLF RSTLEPVEKA LRDAKLDKAQ IHDLVLVGGS TRIPKVQKLL QDFFNGRDLN KSINPDEAVA YGAAVQAAILMGDKSENVQD LLLLDVAPLS LGLETAGGVM TALIKRNSTI PTKQTQIFTT YSDNQPGVLI QVYEGERAMT KDNNLLGRFE LSGIPPAPRG VPQIEVTFDIDANGILNVTA TDKSTGKANK ITITNDKGRL SKEEIERMVQ EAEKYKAEDE VQRERVSAKN ALESYAFNMK SAVEDEGLKG KISEADKKKV LDKCQEVISWLDANTLAEKD EFEHKRKELE QVCNPIISGL YQGAGGPGPG GFGAQGPKGG 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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mRNA Refseq	NM_005345
Protein Refseq	NP_005336
MIM	140550
UniProt ID	P0DMV8
Chromosome Location	6p21.3
Pathway	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;
Function	ATP binding; ATPase activity; ATPase activity, coupled

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