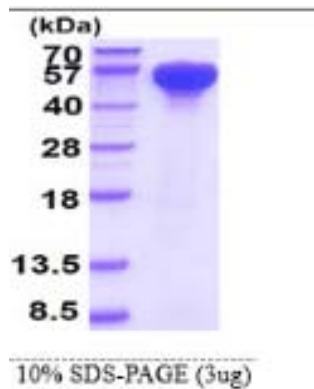


HSPA1A

Recombinant Human Heat Shock 70 kDa Protein 1A (aa 1-641)

Catalog No.	CSI15621A CSI15621B	Quantity:	100 µg 500 µg
Alternate Names:	HSP70.1, HSP70-1/HSP70-2, HSPA1A, HSPA1, HSPA1B		
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...). Recombinant human Hsp70, fused to His-tag at N-terminus, was expressed in <i>E. coli</i> and purified by using conventional chromatography techniques.		
Concentration:	1 mg/mL (determined by Bradford assay)		
GeneID:	3303		
Protein Accession No:	NP_005336		
Source:	<i>E. coli</i>		
Molecular Weight:	72.2kDa (661aa), confirmed by MALDI-TOF		
Formulation:	Liquid in 20 mM Tris-HCl buffer (pH 7.5) containing 2 mM DTT		
Purity:	> 95% by SDS - PAGE		
Endotoxin Level:	< 1.0 EU/mg		
Amino Acid Sequence:	MGSSHHHHHH SSGLVPRGSH MAKAAAIGID LGTTYSCVGV FQHGKVEIIA NDQGNRTTPS YVAFTDTERL IGDAAKNQVA LNPQNTVFDA KRLIGRKFGD PVVQSDMKHW PFQVINDGDK PKVQVSYKGD TKAFYPEEIS SMVLTKMKEI AEAYLGYPVT NAVITVPAYF NDSQRQATKD AGVIAGLNVL RIINEPTAAA IAYGLDRTGK GERNVLIFDL GGGTFDVSIL TIDGIFEVK ATAGDTHLGG EDFDNRLVNH FVEEFKRKHK kDaISQNKRAV RRLRTACERA KRTLSSSTQA SLEIDSLFEG IDFYTSITRA RFEELCSDLF RSTLEPVEKA LRDAKLDKAQ IHDLVLVGGG TRIPKVQKLL QDFFNGRDLN KSINPDEAVA YGAAVQAAIL MGDKSENVQD LLLLDVAPLS LGLETAGGVM TALIKRNSTI PTKQTQIFTT YSDNQPGVLI QVYEGERAMT kDaNNLLGRFE LSGIPPAPRG VPQIEVTFDI DANGILNVTA TDKSTGKANK ITITNDKGRL SKEEIERMVQ EAEKYKAEDE VQRERSAKN ALESYAFNMK SAVEDEGLKG KISEADKKKV LDKCQEVISW LDANTLAEKD EFEHKRKELE QVCNPIISGL YQGAGGPGPG GFGAQGPKGG SSGSGPTIEEV D		
Storage & Stability:	Store at 4 °C short term (1-2 weeks). For long term aliquot and store at -20 °C to -80 °C. Avoid repeated freeze/thaw cycles.		





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