

HSP70 recombinant protein

HSP70, 1-641aa, Human, His tag, E Coli

CATALOG # AAA11739	HOST E Coli	APPLICATIONS SDS-Page
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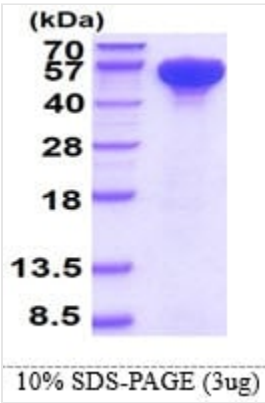
PRODUCT SYNONYMS

HSP70; 1-641aa; Human; His tag; E Coli; Heat shock 70 kDa protein 1; HSPA1A; HSPA1; HSPA1B; HSP70.1; HSP70-1/HSP70-2; heat shock 70kDa protein 1A; ; HSP70 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	> 95% by SDS-PAGE
Form/Format	Liquid. 20mM Tris-HCl buffer(pH7.5), containing 2mM DTT
Concentration	1 mg/ml (determined by Bradford assay) (varies by lot)
Sequence Positions	1-641
Sequence	MGSSHHHHHH SSSLVPRGSH MAKAAAIGID LGTTYSCVGV FQHGKVEIIA NDQGNRTTPS YVAFDTERL IGDAAKNQVA LNPQNTVFDA KRLIGRKFGD PVVQSDMKHW PFQVINDGDK PKVQVSYKGD TKAFYPEEIS SMVLTKMKEI AEAYLGYPVT NAVITVPAYF NDSQRQATKD AGVIAGLNVL RIINEPTAAA IAYGLDRTGK GERNLVIFDL GGGTFDVSIL TIDDGIFEVK ATAGDTHLGG EDFDNRLVNH FVEEFKRKHK KDISQNKRAV RRLRTACERA KRTLSSSTQA SLEIDSLFEG IDFYTSITRA RFEELCSDLF RSTLEPVEKA LRDAKLDKAQ IHDLVLVGGG TRIPKVQKLL QDFFNGRDLN KSINPDEAVA YGAAVQAAIL MGDKSENVQD LLLLDVAPLS LGLETAGGVM TALIKRNSTI PTKQTQIFTT YSDNQPGVLI QVYEGERAMT KDNLLGRFE LSGIPPAPRG VPQIEVTFDI DANGILNVT TDKSTGKANK ITITNDKGRL SKEEIERMVQ EAEKYKADE VQRERVSAKN ALESYAFNMK SAVEDEGLKG KISEADKKKV LDKCQEVISW LDANTLAEKD EFEHKRKELE QVCNPIISGL YQGAGGPGPG GFQAQGPCKG SSGSGPTIEEV D
Applicable Applications for HSP70 recombinant protein	SDS-PAGE
Tag	His-tag
Endotoxin Level	< 1.0 EU per 1 ug of protein (determined by LAL method)
Preparation and Storage	Can be stored at 2 degree C to 8 degree C. For long term storage, aliquot and store at -20° C or -80°C. Avoid repeated freezing and thawing cycles.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for HSP70 recombinant protein	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 E Coli and purified by using conventional chromatography techniques.
Product Categories/Family for HSP70 recombinant protein	Heat Shock Proteins
References	Gething M-J, et al. (1992). Nature. 355. 33-45; Lewis MJ, et al. EMBO J. (1985) 4:3137-3143

NCBI AND UNIPROT INFORMATION

NCBI GI #	194248072
NCBI GeneID	3303
NCBI Accession #	NP_005336
NCBI GenBank Nucleotide #	NM_005345.5
UniProt Accession #	P0DMV8; P08107; P19790; Q5JQI4; Q5SP17; Q9UQL9; Q9UQM0; B4E3B6
Molecular Weight	72.2kDa (661aa), confirmed by MALDI-TOF.
NCBI Official Full Name	heat shock 70 kDa protein 1A
NCBI Official Synonym Full Names	heat shock protein family A (Hsp70) member 1A
NCBI Official Symbol	HSPA1A
NCBI Official Synonym Symbols	HSP72; HSPA1; HSP70I; HSP70-1; HSP70.1; HSP70-1A; HEL-S-103
NCBI Protein Information	heat shock 70 kDa protein 1A
UniProt Protein Name	Heat shock 70 kDa protein 1A
UniProt Gene Name	HSPA1A
UniProt Synonym Gene Names	; HSP70.1

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.

