

# Product information



## HSP70, 1-641 aa

Human, His tagged, Recombinant, *E.coli*

Cat. No. IBHSP0603

**Full name:** Heat shock 70 kDa protein 1

**NCBI Accession No.:** NP\_005336

**Synonyms:** HSP70.1, HSP70-1/HSP70-2, HSPA1A, HSPA1, HSPA1B

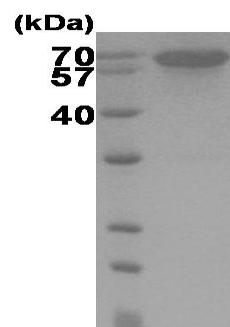
**Description:** Hsp70 is a human heat shock protein. Hsp70 is an important part of the cell's machinery for protein folding, and help to protect cells from stress. In most species, there are many proteins that belong to the hsp70 family. Some of these are only expressed under stress conditions, while 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 *E.coli* and purified by using conventional chromatography techniques.

**Form:** Liquid. In 20 mM Tris-HCl buffer (pH 7.5) containing 2 mM DTT

**Molecular Weight:** 72.2kDa (661aa)

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

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



10% SDS-PAGE (3ug)

### Sequences of amino acids:

MGSSHHHHHH SSSLVPRGSH MAKAAAIGID LGTTYSCVGV FQHGKVEIIA NDQGNRTTPS YVAFDTERL IGDAAKNQVA LNPQNTVFDA KRLIGRKFGD  
PVVQSDMKHW PFQVINDGDK PKVQVSYKGD TKAFYPEEIS SMVLTKMKEI AEAYLGYPVT NAVITVPAYF NDSQRQATKD AGVIAGLNLV RIINEPTAAA  
IAYGLDRTGK GERNVLIFDL GGGTFDVSIL TIDGIFEVK ATAGDTHLGG EDFDNLVNH FVEEFKRKHK KDISQNKRAV RRLRTACERA KRTLSSSTQA  
SLEIDSLFEG IDFYTSITRA RFEELCSDLF RSTLEPVEKA LRDAKLDKQA IHDLVLVGGS TRIPKVQKLL QDFFNGRDLN KSINPDEAVA YGA AVQAAIL  
MGDKSENVQD LLLLDVAPLS LGLETAGGVM TALIKRNSTI PTKQTQIFTT YSDNQPGVLI QVYEGERAMT KDNLLGRFE LSGIPPAPRG VPQIEVTFDI  
DANGILNVTA TDKSTGKANK ITITNDKQRL SKEEIERMVQ EAEKYKAEDV VQRERVSAKN ALESYAFNMK SAVEDEGLKG KISEADKKKV LDKCQEVISW  
LDANTLAEKD EFEHKRKELE QVCNPIISGL YQGAGGPGPG GFGAQGPKGG SGSGPTIEEV D

### General references:

Gething M-J, *et al.* (1992). *Nature*. **355**. 33-45

**WARNING: THIS PRODUCT IS NOT INTENDED OR APPROVED FOR HUMAN, DIAGNOSTICS OR VETERINARY USE. USE OF THIS PRODUCT FOR HUMAN OR ANIMAL TESTING IS EXTREMELY HAZARDOUS AND MAY RESULT IN DISEASE, SEVERE INJURY, OR DEATH.**

# Product information

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Lewis MJ, *et al. EMBO J.* (1985) 4:3137–3143

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

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