

**rP90873Hu01 10μg**  
**Heat Shock Protein 70 (HSP70)**  
**Organism: Homo sapiens (Human)**  
***Instruction manual***

FOR IN VITRO USE AND RESEARCH USE ONLY  
 NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

7th Edition (Revised in May, 2013)

## [ PROPERTIES ]

**Residues:** Met1~Asp641 (Accession # P08107),  
 with N-terminal His-Tag.

**Host:** *E. coli*

**Subcellular Location:** Cytoplasm.

**Purity:** >95%

**Endotoxin Level:** <1.0EU per 1μg  
 (determined by the LAL method).

**Formulation:** Supplied as lyophilized form in PBS,  
 pH7.4, containing 5% sucrose, 0.01% sarcosyl.

**Predicted isoelectric point:** 5.7

**Predicted Molecular Mass:** 71.6kDa

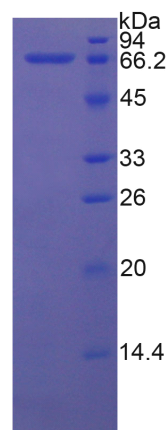
**Accurate Molecular Mass:** 68kDa as determined by SDS-PAGE reducing conditions.

**Applications:** SDS-PAGE; WB; ELISA; IP.

(May be suitable for use in other assays to be determined by the end user.)

**Note:** The possible reasons that the actual band size differs from the predicted are as follows:

1. Splice variants: Alternative splicing may create different sized proteins from the same gene.
2. Relative charge: The composition of amino acids may affects the charge of the protein.
3. Post-translational modification: Phosphorylation, glycosylation, methylation etc.
4. Post-translation cleavage: Many proteins are synthesized as pro-proteins, and then cleaved to give the active form.
5. Polymerization of the target protein: Dimerization, multimerization etc.



15% SDS-PAGE

## [ USAGE ]

Reconstitute in sterile PBS, pH7.2-pH7.4.

**Unique product** **Superb quality** **Client favorite** **Nicest service**  **ISO9001:2008**;  **ISO13485:2003**; 

## [ STORAGE AND STABILITY ]

**Storage:** Avoid repeated freeze/thaw cycles.

Store at 2-8°C for one month.

Aliquot and store at -80°C for 12 months.

**Stability Test:** The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.

## [ SEQUENCES ]

The target protein is fused with N-terminal His-Tag, its sequence is listed below.

MGHHHHHHSGSEF-MAKAAAIGID LGTTYSCVGV FQHGKVEIIA NDQGNRTTPS  
YVAFTDTERL IGDAAKNQVA LNPQNTVFDA KRLIGRKFGD PVVQSDMKHW PFQVINDGDK  
PKVQVSYKGE TKAFYPEEIS SMVLTKMKEI AEAYLGYPVT NAVITVPAYF NDSQRQATKD  
AGVIAGLNVL RIINEPTAAA IAYGLDRTGK GERNVLIFDL GGGTFDVSIL TIDDGIFEVK  
ATAGDTHLGG EDFDNRLVNH FVEEFKRKHK KDISQNKRAV RRLRTACERA KRTLSSSTQA  
SLEIDSLFEG IDFYTSITRA RFEELCSDLF RSTLEPVEKA LRDAKLDKAQ IHDLVLVGGG  
TRIPKVQKLL QDFFNGRDLN KSINPDEAVA YGAAVQAAIL MGDKSENVQD LLLLDVAPLS  
LGLETAGGVM TALIKRNTI PTKQTQIFTT YSDNQPGVLI QVYEGERAMT KDNLLGRFE  
LSGIPPAPRG VPQIEVTFDI DANGILNVT TDKSTGKANK ITITNDKGRL SKKEIERMVQ  
EAEKYKAEDE VQRERVSAN ALESYAFNMK SAVEDEGLKG KISEADKKKV LDKCQEVISW  
LDANTLAEKD EFEHKRKELE QVCNPIISGL YQGAGGPGPG GFGAQGPKGG SGSGPTIEEV  
D

## [ REFERENCES ]

1. Zagouri F., *et al.* (2012) Mol. Biol. Rep. 39:10873-10879.
2. Lu T.S., *et al.* (2012) Cardiovasc. Res. 96:524-532.
3. Chien C.Y., *et al.* (2012) Audiol. Neurotol. 17:381-385.
4. Lu H.Q., *et al.* (2012) Zhonghua Yu Fang Yi Xue Za Zhi 46:452-455.

Unique product Superb quality Client favorite Nicest service  ISO9001:2008;  ISO13485:2003; 

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