# Recombinant Heat Shock 70kDa Protein 1A (HSPA1A) Instruction Manual

## SIPB053Ra01

**Rattus norvegicus (Rat)**

| | |
|---|---|
| **Source** | Prokaryotic expression |
| **Host** | E.coli |
| **Endotoxin Level** | <1.0EU per 1μg (determined by the LAL method) |
| **Subcellular Location** | Nucleus, Cytoplasm |
| **Predicted Molecular Mass** | 71.4kDa |
| **Accurate Molecular Mass** | 71kDa(Analysis of differences refer to the manual) |
| **Residues & Tags** | Met1~Asp641 with N-terminal His Tag |
| **Buffer Formulation** | PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300. |
| **Traits** | Freeze-dried powder |
| **Purity** | > 90% |
| **Isoelectric Point** | 5.6 |
| **Applications** | Positive Control; Immunogen; SDS-PAGE; WB. |

**SEQUENCE**

MAKKTAIGID LGTTYSCVGV FQHGKVEIIA NDQGNRTTPS YVAFTDTERL
IGDAAKNQVA LNPQNTVFDA KRLIGRKFGD PVVQSDMKHW PFQVVNDGDK
PKVQVNYKGE NRSFYPEEIS SMVLTKMKEI AEAYLGHPVT NAVITVPAYF
NDSQRQATKD AGVIAGLNVL RIINEPTAAA IAYGLDRTGK GERNVLIFDL
GGGTFDVSIL TIDDGIFEVK ATAGDTHLGG EDFDNRLVSH FVEEFKRKHK
KDISQNKRAV RRLRTACERA KRTLSSSTQA SLEIDSLFEG IDFYTSITRA
RFEELCSDLF RGTLEPVEKA LRDAKLDKAQ IHDLVLVGGS TRIPKVQKLL
QDFFNGRDLN KSINPDEAVA YGAAVQAAIL MGDKSENVQD LLLLDVAPLS
LGLETAGGVM TALIKRNSTI PTKQTQTFTT YSDNQPGVLI QVYEGERAMT
RDNNLLGRFE LSGIPPAPRG VPQIEVTFDI DANGILNVTA TDKSTGKANK
ITITNDKGRL SKEEIERMVQ EAERYKAEDE VQRERVAAKN ALESYAFNMK
SAVEDEGLKG KISEADKKKV LDKCQEVISW LDSNTLAEKE EFVHKREELE
RVCNPIISGL YQGAGAPGAG GFGAQAPKGG SGSGPTIEEV D

**USAGE**

Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

**STORAGE**

Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.

**STABILITY**

The thermal stability is described by the loss rate. 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. The loss rate is less than 5% within the expiration date under appropriate storage condition.

**Image**

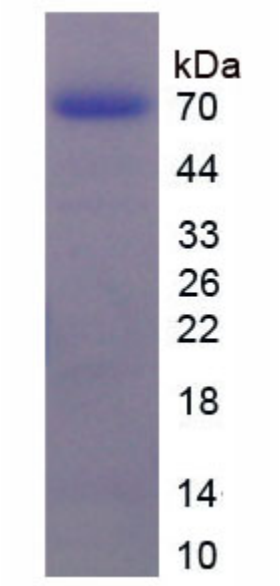


Figure. SDS-PAGE

**[IMPORTANT NOTE]**

The kit is designed for research use only, we will not be responsible for any issue if the kit was used in clinical diagnostic or any other procedures.