

# Recombinant human HSPA8/HSC71 protein

Catalog Number: ATGP0415

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-646aa

### UniProt No.

P11142

### NCBI Accession No.

NP\_006588.1

### Alternative Names

Heat shock 70 kDa protein 8, HSPA8, HSC54, HSC71, HSP71, HSP73, HSPA10, LAP1, NIP71, Heat shock 70 kDa protein 8, heat shock 70kDa protein 8, HSC70

## PRODUCT SPECIFICATION

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### Molecular Weight

73.1 kDa (666aa)

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol

### Purity

> 90% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

HSC70, also known as heat shock 70 kDa protein 8, belongs to the heat shock protein 70 family which contains both heat-inducible and constitutively expressed members. The latter are called heat-shock cognate proteins. This protein is a heat-shock cognate protein. HSC70 binds to nascent polypeptides to facilitate correct folding. It also functions as an ATPase in the disassembly of clathrin-coated vesicles during transport of membrane components through the cell. Recombinant HSC70 protein was expressed in E. coli and purified by using

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conventional chromatography techniques.

## Amino acid Sequence

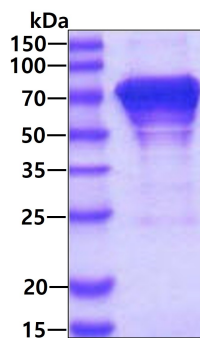
<MGSSHHHHHH SSGLVPRGSH> MSKGAVID LGTTYSCVGV FQHGKVEIIA NDQGNRTTPS YVAFTDTERL  
IGDAAKNQVA MNPTNTVFDA KRLIGRRFDD AVVQSDMKHW PFMVVNDAGR PKVQVEYKGE TKSFYPEEVS SMVLTKMKEI  
AEAYLGKTVT NAVVTVPAYF NDSQRQATKD AGTIAGLNLV RIINEPTAAA IAYGLDKKVG AERNVLIFDL GGGTFDVSIL  
TIEDGIFEVK STAGDTHLGG EDFDNRMVNH FIAEFKRKHK KDISENKRAV RRLRTACERA KRTLSSSTQA SIEIDSLYEG  
IDFYTSITRA RFEELNADLF RGTLDPVEKA LRDAKLDKSQ IHDIVLVGGS TRIPKIQKLL QDFFNGKELN KSINPDEAVA  
YGAAVQAAIL SGDKSENVQD LLLLDVTPLS LGIETAGGVM TVLIKRNNTI PTKQTQFTT YSDNQPGVLI QVYEGERAMT  
KDNNLLGKFE LTGIPPAPRG VPQIEVTFDI DANGILNVSA VDKSTGKENK ITITNDKGRL SKEDIERMVQ EAEKYKAEDE  
KQRDKVSSKN SLESYAFNMK ATVEDEKLQG KINDEDKQKI LDKCNEIINW LDKNQTAEKE EFEHQQKELE KVCNPIITKL  
YQSAGGMPGG MPGGFPGGGA PPSGGASSGP TIEEVD

## General References

Tsukahara F., et al. (2000) Mol Pharmacol. 58(6):1257-63.  
Dworniczak B., et al. (1987) Nucleic Acides Res. 15(13):5181-97.

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.