

# Recombinant human HSP70B/HSPA6 protein

Catalog Number: ATGP0428

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-643aa

### UniProt No.

P17066

### NCBI Accession No.

NP\_002146

### Alternative Names

Heat shock 70 kDa protein 6, HSPA6', Heat shock 70 kDa protein 6 Heat shock 70 kDa protein B',

## PRODUCT SPECIFICATION

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### Molecular Weight

73.2 kDa (663aa)

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 100mM NaCl, 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

HSP70B is a unique member of the human Hsp70 chaperone involved in cellular processes such as protein trafficking, folding, and prevention of aggregation. This protein is strictly stress-inducible, having little or no basal expression levels in most cells. HSP70B and Hsp72 are closely related and play cooperative roles in cell survival of proteotoxic stress. Recombinant human HSP70B, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

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## Amino acid Sequence

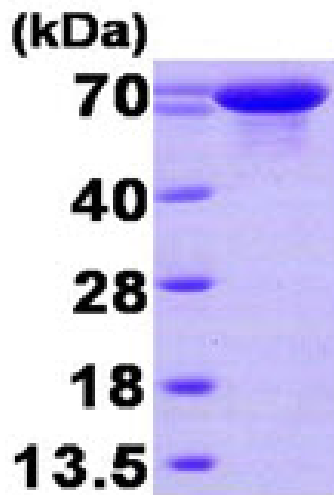
MGSSHHHHHH SSGLVPRGSH MQAPRELA VG IDLGTTYSCV GV FQQGRVEI LANDQGNRTT PSYVAFTDTE RLVGDAAKSQ  
AALNPHNTVF DAKRLIGRKF ADTTVQSDMK HWPFRVVSEG GKPKVRVCYR GEDKTFYPEE ISSMVLKMK ETAEAYLGQP  
VKHAVITVPA YFNDSQRQAT KDAGAIAGLN VLRIINEPTA AAIAYGLDRR GAGERNVLIF DLGGGTFDVS VLSIDAGVFE  
VKATAGDTHL GGEDFDNRLV NHFMEEFRRK HGKDLSGNKR ALRRLRTACE RAKRTLSSST QATLEIDSLF EGVDFYTSIT  
RARFEELCSD LFRSTLEPVE KALRDAKLDK AQIHDVVLVG GSTRIKPVQK LLQDF FNGKE LNK SINPDEA VAYGAAVQAA  
VLMGDKCEKV QDLLLLDVAP LSLGLETAGG VMTTLIQRNA TIPTKQTQTF TTYSDNQPGV FIQVYEGERA MTKDNNLLGR  
FELSGIPPAP RGVPQIEVTF DIDANGILSV TATDRSTGKA NKITITNDKG RLSKEEVERM VHEAEQYKAE DEAQRDRVAA  
KNSLEAHVFH VKGSLQEESL RDKIPEEDRR KMQDKCREVL AWLEHNQLAE KEEYEHQKRE LEQICRPIFS RLYGGPGVPG  
GSSCGTQARQ GDPSTGPIIE EVD

## General References

Noonan E., et al. (2008). *Exp Cell Res.* 314(13):2468-76.  
Hightower LE., et al. (2007). *Cell Stress Chaperones.* 12(4):393-402.

## DATA

### SDS-PAGE



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

15% SDS-PAGE (3ug)