

# Recombinant human HSPBP1 protein

Catalog Number: ATGP0554

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-362aa

### UniProt No.

Q9NZL4

### NCBI Accession No.

AAH01236

### Alternative Names

Hsp70-binding protein 1, HSPBP, FES, Hsp70-binding protein 1 500019G21Rik, FES1, Heat shock protein 70 binding protein, Heat shock protein 70 interacting protein, Heat shock protein binding protein 1, Heat-shock 70-KD protein-binding protein 1, Hsp 70 binding protein, Hsp 70 interacting protein, Hsp70 binding protein 1, Hsp70 binding protein 2, Hsp70 interacting protein 1, Hsp70 interacting protein 2, HSPA (heat shock 70kDa) binding protein, cytoplasmic cochaperone 1, HSPA-binding protein 1, HspBP1, HspBP2,

## PRODUCT SPECIFICATION

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### Molecular Weight

41.6 kDa (382aa)

### Concentration

0.5mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 2mM DTT, 30% glycerol, 2mM EDTA, 0.1M NaCl

### Purity

> 95% 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

Hsp70-binding protein 1, also known as HSPBP1, belongs to a family of eukaryotic proteins identified as nucleotide exchange factors for HSP 70, which exhibit varying degrees of compartment and species specificity. It

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is localized primarily in cytoplasm and nucleus but is also found extracellularly. HspBP1 binds to HSP 70, inhibits its activity and promotes dissociation of nucleotides from the HSP 70 ATPase domain. It is mainly expressed in heart and skeletal muscle. Recombinant human HSPBP1, fused to His-tag at N-terminus, was expressed in *E. coli* and purified by using conventional chromatography techniques.

## Amino acid Sequence

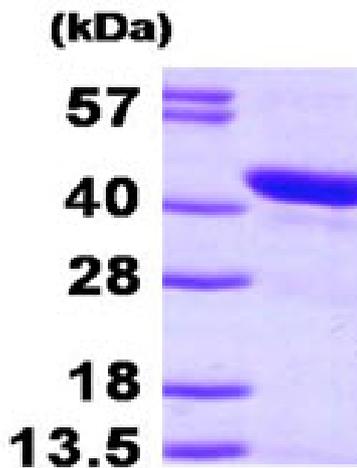
MGSSHHHHHH SSGLVPRGSH MSDEGSRGSR LPLALPPASQ GCSSGGGGGG GGGSSAGGSG NSRPPRNLQG  
LLQMAITAGS EEPDPPPEPM SEERRQWLQE AMSAAFRRGQR EEVEQMKSCS RVLSPMPPT AGEAEQAADQ QEREGALELL  
ADLCENMDNA ADFCQLSGMH LLVGRYLEAG AAGLRWRAAQ LIGTCSQNVA AIQEQVLGLG ALRKLLRLLD RDACDTRVK  
ALFAISCLVR EQEAGLLQFL RLDGFSVLMR AMQQVQKLV VKSAFLLQNL LVGHPEHKGT LCSTMGMVQQL VALVRTEHSP  
FHEHVLGALC SLVTDFPQGV RECREPELGL EELLRHRCQL LQQHEEYQEE LEFCEKLLQT CFSSPADDSM DR

## General References

Ewdonin A., et al. (2009) *Biol Cell*. 101(6):351-60.  
Souza AP., et al. (2009) *Cell Stress Chaperones*. 14(3): 301-10.

## DATA

### SDS-PAGE



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

15% SDS-PAGE (3ug)