

# Recombinant human HSPB3 protein

Catalog Number: ATGP1202

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-150aa

### UniProt No.

Q12988

### NCBI Accession No.

NP\_006299

### Alternative Names

Heat shock protein beta-3, DHMN2C, HMN2C, HSPL27

## PRODUCT SPECIFICATION

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### Molecular Weight

19.1 kDa (170aa)

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) 5% glycerol, 1M urea.

### Purity

> 85% 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

HSPB3, also known as HSPL27, is a muscle-specific small heat shock protein. It is expressed preferentially in heart and skeletal muscle. Mammalian small heat shock proteins (sHSP) is a abundantly expressed proteins with diverse functions, including the assembly and sequestering of multi-protein complexes, transportation of nascent polypeptide chains across cellular membranes and regulation of protein folding. HSPB3 functions as an ATP-dependent chaperone protein that plays a role in the refolding of denatured proteins and may also Inhibitor of actin polymerization.

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### Amino acid Sequence

MGSSHHHHHH SSGLVPRGSH MAKIILRHLI EIPVRYQEEF EARGLEDCL DHALYALPGP TIVDLRKTRA AQSPVDSAA  
ETPPREGKSH FQILLDVVQF LPEDIIIQTF EGWLLIKAQH GTRMDEHGFI SRSFTRQYKL PDGVEIKDLS AVLCHDGILV  
VEVKDPVGTK

### General References

Fontaine JM., et al. (2005) Biochem Biophys Res Commun. 337(3):1006-11.

Suqiyama Y., et al. (2000) J Biol Chem. 275(2):1095-104.

## DATA

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### SDS-PAGE

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

