

## Recombinant Human HSPB3, His-tagged

**Cat. No.** HSPB3-3625H    **Lot. No.** (See product label)

### SPECIFICATION

|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>         | Recombinant human HSPB3 protein, fused to His-tag at N-terminus, was expressed in E.coli (1-150 aa).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Species</b>                  | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Source</b>                   | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Description</b>              | 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. |
| <b>Form</b>                     | Liquid. In 20mM Tris-HCl buffer (pH 8.0), 5% glycerol, 1M Urea.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Molecular Weight</b>         | 19.1 kDa (170aa)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Purity</b>                   | > 85 % by SDS - PAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Concentration</b>            | 1 mg/ml (determined by Bradford assay )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Sequences of amino acids</b> | MGSSHHHHHH SSGLVPRGSH MAKIILRHLL EIPVRYQEEF EARGLEDCL<br>DHALYALPGP TIVDLRKTRA AQSPPVDSAA ETPPREGKSH FQILLDVVQF                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

LPEDIIIQTF EGWLLIKAQH GTRMDEHGFI SRSFTRQYKL PDGVEIKDLS  
AVLCHDGILV VEVKDPVGTK

**Storage**

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

**GENE INFORMATION**
**Gene Name**

HSPB3 heat shock 27kDa protein 3 [ Homo sapiens ]

**Official Symbol**

HSPB3

**Synonyms**

HSPB3; HMN2C; DHMN2C; HSPL27; HspB3; heat shock 27kDa protein 3; heat shock protein beta-3; HSP 17; protein 3; OTTHUMP00000122478; heat shock 17 kDa protein

**Gene ID**

8988

**mRNA Refseq**

NM\_006308

**Protein Refseq**

NP\_006299

**MIM**

604624

**UniProt ID**

Q12988

**Chromosome  
Location**

5q11.2

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