

## Recombinant Human HSP27, GST-tagged

Cat. No. HSP27-13976H Lot. No. (See product label)

### SPECIFICATION

|                  |                                                                                                                                                                                                                                                                                                                                                                                     |
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| Product Overview | Recombinant Human HSP27 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.                                                                                                                                                                                                                                                                           |
| Species          | Human                                                                                                                                                                                                                                                                                                                                                                               |
| Source           | E.coli                                                                                                                                                                                                                                                                                                                                                                              |
| ProteinLength    | 1-182a.a.                                                                                                                                                                                                                                                                                                                                                                           |
| Description      | The protein encoded by this gene is induced by environmental stress and developmental changes. The encoded protein is involved in stress resistance and actin organization and translocates from the cytoplasm to the nucleus upon stress induction. Defects in this gene are a cause of Charcot-Marie-Tooth disease type 2F (CMT2F) and distal hereditary motor neuropathy (dHMN). |
| Storage          | The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.                                                                                                                                                                                                                                                                                           |
| Storage Buffer   | 1M PBS (58mM Na <sub>2</sub> HPO <sub>4</sub> , 17mM NaH <sub>2</sub> PO <sub>4</sub> , 68mM NaCl, pH8. ) added with 100mM GSH and 1% Triton X-100, 15% glycerol.                                                                                                                                                                                                                   |

### GENE INFORMATION

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|-----------|---------------------------------------------------|
| Gene Name | HSPB1 heat shock 27kDa protein 1 [ Homo sapiens ] |
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| <b>Official Symbol</b>     | HSPB1                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Synonyms</b>            | HSPB1; heat shock 27kDa protein 1; heat shock 27kD protein 1; heat shock protein beta-1; Hs.76067; Hsp25; HSP27; HSP28; HSP 27; 28 kDa heat shock protein; heat shock 27 kDa protein; stress-responsive protein 27; estrogen-regulated 24 kDa protein; CMT2F; HMN2B; SRP27; HS.76067; DKFZp586P1322;                                                                                        |
| <b>Gene ID</b>             | 3315                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>mRNA Refseq</b>         | NM_001540                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Protein Refseq</b>      | NP_001531                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>MIM</b>                 | 602195                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>UniProt ID</b>          | P04792                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Chromosome Location</b> | 7q11.23                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Pathway</b>             | Amoebiasis, organism-specific biosystem; Amoebiasis, conserved biosystem; Destabilization of mRNA by AUF1 (hnRNP D0), organism-specific biosystem; FAS pathway and Stress induction of HSP regulation, organism-specific biosystem; Gene Expression, organism-specific biosystem; IL-3 Signaling Pathway, organism-specific biosystem; IL-6 Signaling Pathway, organism-specific biosystem; |
| <b>Function</b>            | protein binding; protein kinase C binding; protein kinase C delta binding; protein kinase C inhibitor activity; protein kinase binding; ubiquitin binding;                                                                                                                                                                                                                                  |