

# Recombinant Human HSPB1

**Cat. No.** HSPB1-27737TH    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Human Recombinant Full Length HSP27; 205 amino acids, 22.7 kDa.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	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).
<b>Tissue specificity</b>	Detected in all tissues tested: skeletal muscle, heart, aorta, large intestine, small intestine, stomach, esophagus, bladder, adrenal gland, thyroid, pancreas, testis, adipose tissue, kidney, liver, spleen, cerebral cortex, blood serum and cerebrospinal f
<b>Form</b>	Liquid
<b>Purity</b>	>95% by SDS-PAGE
<b>Storage buffer</b>	Preservative: None Constituents: 20mM HEPES, 100mM Potassium chloride, 1mM DTT, pH 7.5
<b>Storage</b>	Aliquot and store at -80°C (add 1% BSA for extra stability). Avoid repeated freeze / thaw cycles.

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<b>Sequences of amino acids</b>	MTERRVPFSL LRGPSWDPFR DWYPHSRLFD QAFGLPRLPE EWSQWLGGSS WPGYVRPLPP AAIESPAVAA PAYSRALSRQ LSSGVSEIRH TADRWRVSLD VNHFAPDELT VKTKDGVVEI TGKHEERQDE HGYISRCFTR KYTLPPGVDP TQVSSLSLPE GTLTVEAPMP KLATQSNEIT IPVTFESRAQ LGGPEAAKSD ETAAK
<b>Sequence Similarities</b>	Belongs to the small heat shock protein (HSP20) family.
<b>Full Length</b>	Full L.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	HSPB1 heat shock 27kDa protein 1 [ Homo sapiens ]
<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;
<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>	7q

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**Pathway**

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; IL-3 Signaling Pathway, organism-specific biosystem;

**Function**

protein binding; protein kinase C delta binding; protein kinase C inhibitor activity; ubiquitin binding;

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