

Recombinant Human HSPB1

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

SPECIFICATION

Product Overview	Human Recombinant Full Length HSP27; 205 amino acids, 22.7 kDa.
Species	Human
Source	E.coli
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).
Tissue specificity	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
Form	Liquid
Purity	>95% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 20mM HEPES, 100mM Potassium chloride, 1mM DTT, pH 7.5
Storage	Aliquot and store at -80°C (add 1% BSA for extra stability). Avoid repeated freeze / thaw cycles.

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Sequences of amino acids	MTERRVPFSL LRGPSWDPFR DWYPHSRLFD QAFGLPRLPE EWSQWLGGSS WPGYVRPLPP AAIESPAVAA PAYSRALSRQ LSSGVSEIRH TADRWRVSLD VNHFAPDELT VKTKDGVVEI TGKHEERQDE HGYISRCFTR KYTLPPGVDP TQVSSSLSPE GTLTVEAPMP KLATQSNEIT IPVTFESRAQ LGGPEAAKSD ETAAK
Sequence Similarities	Belongs to the small heat shock protein (HSP20) family.
Full Length	Full L.
GENE INFORMATION	
Gene Name	HSPB1 heat shock 27kDa protein 1 [Homo sapiens]
Official Symbol	HSPB1
Synonyms	HSPB1; heat shock 27kDa protein 1; heat shock 27kD protein 1; heat shock protein beta-1; Hs.76067; Hsp25; HSP27; HSP28;
Gene ID	3315
mRNA Refseq	NM_001540
Protein Refseq	NP_001531
MIM	602195
Uniprot ID	P04792
Chromosome Location	7q

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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