

## HSPB1

## Recombinant Human Heat Shock Protein 27

<b>Catalog No.</b>	CRH112A CRH112B CRH112C	<b>Quantity:</b>	10 µg 50 µg 1.0 mg
<b>Alternate Names:</b>	HSPB1, CMT2F, HMN2B, HSP27, HSP28, HSP25, Heat shock protein beta-1, Heat shock 27 kDa protein, Stress-responsive protein 27, SRP27		
<b>Description:</b>	<p>HSP27 (also known as the Estrogen-Regulated 24K protein, and hsp 28) is a member of the mammalian small heat shock protein family. Hsp27 is expressed constitutively in many tissues and its expression is increased to high levels after various types of stress including elevated temperatures, toxic metals, drugs and oxidants. Also, Hsp27 is phosphorylated <i>in vivo</i> on three phosphorylation sites (Ser15, Ser78 and Ser82) by protein kinases including MAPKAP kinase 2 and the stress-activated protein kinase SAPK2 (p38).</p> <p>Recombinant Human HSP-27 is a single, non-glycosylated polypeptide chain containing 205 amino acids. Hsp27 was purified by conventional chromatography.</p>		
<b>Concentration:</b>	1 mg/ml		
<b>Gene ID:</b>	3315		
<b>Source:</b>	<i>E. coli</i>		
<b>Molecular Mass:</b>	22.7 kDa		
<b>Formulation:</b>	The liquid, sterile-filtered HSP-27 protein solution (1 mg/ml) contains 20 mM HEPES buffer, pH 7.5, + 1 mM DTT + 100 mM KCl.		
<b>Purity:</b>	>95.0% by RP-HPLC and SDS-PAGE		
<b>Amino Acid Sequence:</b>	MTERRVPFSL LRGPSWDPFR DWYPHSRLFD QAFGLPRLPE EWSQWLGGSS WPGYVRPLPP AAIESPAVAA PAYSRALSRQ LSSGVSEIRH TADRWRVSLD VNHFAPELDT VKTKDGVVEI TGKHEERQDE HGYISRCFTR KYTLPPGVDP TQVSSSLSPE GTLTVEAPMP KLATQSNEIT IPVTFESRAQ LGGPEAAKSD ETAAK.		
<b>Storage &amp; Stability:</b>	HSP-27 although stable at 4°C for 1 week, should be stored below -20°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). This depends upon the particular application employed. <b>Avoid repeated freeze-thaw cycles.</b>		

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

