

Recombinant Human Heat Shock Protein Beta-1, His tagged

Cat. No. HSPB1-1825H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human HSP27 protein, fused to His-tag at N-terminus, was expressed in <i>E.coli</i> and purified by usin.
Species	Human
Source	E.coli
Description	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 in vivo on three phosphorylation sites (Ser15, Ser78 and Ser82) by protein kinases including MAPKAP kinase 2 and the stress-activated protein kinase SAPK2 (p38).
Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MTERRVPFSL LRGPSWDPFR DWYPHSRLFD QAFGLPRLPE EWSQWLGSS WPGYVRPLPP AAIESPAVAA PAYSRALSRQ LSSGVSEIRH TADRWRVSLD VNHFAPDELTKTKDGVVEI TGKHEERQDE HGYISRCFTR KYTLPPGVDP TQVSSLSPE GTLTVEAPMP KLATQSNEIT IPVTFESRAQ LGGPEAAKSD ETAAK
Form	Liquid. In 20 mM Tris-HCl buffer (pH8.0) contining 1mM DTT 10% glycerol
Molecular Weight	24.9 kDa (225aa)

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Purity	> 95% by SDS - PAGE
Concentration	1 mg/ml (determined by Bradford assay)
Endotoxin Level	< 1.0 EU per 1 µg of protein (determined by LAL method)
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.
Pathways	MAPK signaling pathway; VEGF signaling pathway

GENE INFORMATION

Gene Name	HSPB1 heat shock 27kDa protein 1 [Homo sapiens]
Synonyms	HSPB1; CMT2F; DKFZp586P1322; HS.76067; HSP28; Hsp25; HMN2B; HSP27; SRP27; HS.76067; DKFZp586P1322; heat shock protein beta-1; stress-responsive protein 27; estrogen-regulated 24 kDa protein.; OTTHUMP00000024846; 28 kDa heat shock protein; Estrogen-regulated 24 kDa protein; Heat shock 27 kDa protein; heat shock 27kDa protein 1.
Gene ID	3315
mRNA Refseq	NM_001540
Protein Refseq	NP_001531
MIM	602195
UniProt ID	P04792

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Chromosome Location	7q11.23
Function	identical protein binding; ubiquitin binding

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