Recombinant Human Heat Shock 27kDa Protein 1

Cat. No. HSPB1-4923H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human HSPB1 produced in E.Coli is a single, non-glycosylated polypeptide chain containing 205 amino acids and have a molecular weight of 22.7 kDa. The protein was purified by proprietary chromatographic techniques.
Species	Human
Source	E.coli
Description	HSPB1 is a protein that in humans is encoded by the HSPB1 gene. HSPB1 is a chaperone of the sHsp (small heat shock protein) group among ubiquitin, α-crystallin, Hsp20 and others. The common functions of sHsps are chaperone activity, thermotolerance, inhibition of apoptosis, regulation of cell development, and cell differentiation. They also take part in signal transduction.
Biological Activity	Immunoreactivity is confirmed by reaction with monoclonal mouse antibodies against HSPB1.
Molecular Weight	22.7 kDa
Form	1 mg/ml solution containing 20 mM Hepes (pH 7.5), 1 mM DTT and 100 mM KCl.
Appearance	Liquid
Endotoxin Level	<0.1 ng/μg

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Purity	>98% by SDS-PAGE and HPLC analyses
Storage	Store at 4 °C for 2-7 days and store at -20 °C for future use. For long-term storage, it is recommended to add a carrier protein (0.1% HAS or BSA). Aviod freeze-thaw cycle.
Pathways	Amoebiasis; Destabilization of mRNA by AUF1 (hnRNP D0); FAS pathway and Stress induction of HSP regulation; IL-3 Signaling Pathway; IL-6 Signaling Pathway; MAPK signaling pathway; Metabolism of RNA; Metabolism of mRNA; Regulation of mRNA Stability by Proteins that Bind AU-rich Elements; Signaling events mediated by VEGFR1 and VEGFR2; TNF-alpha/NF-kB Signaling Pathway; VEGF signaling pathway

GENE INFORMATION

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

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MIM	602195
UniProt ID	P04792
Chromosome Location	7q11.23
Function	protein binding; protein kinase C delta binding; protein kinase C inhibitor activity; ubiquitin binding

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