

Datasheet for ABIN934933

**HSP27 Protein****1** Image[Go to Product page](#)

## Overview

Quantity:	100 µg
Target:	HSP27 (HSPB1)
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Application:	SDS-PAGE (SDS)

## Product Details

Sequence:	MTERRVPFSL LRGPSWDPFR DWYPHSRLFD QAFGLPRLPE EWSQWLGSS WPGYVRPLPP AAIESPAVAA PAYSRALSRQ LSSGVSEIRH TADRWRVSLD VNHFAPDELTKTKDGVVEI TGKHEERQDE HGYISRCFTR KYTLPPGVDP TQVSSLSPE GLTVEAPMP KLATQSNEIT IPVTFESRAQ LGGPEAAKSD ETAAK
Characteristics:	Purified recombinant Human Hsp27 protein Expression System: E.coli Molecular weight on SDS-PAGE will appear higher.
Purity:	> 95 % pure
Endotoxin Level:	< 1.0 EU per µg of protein (determined by LAL method)

## Target Details

Target:	HSP27 (HSPB1)
Alternative Name:	Hsp27 ( <a href="#">HSPB1 Products</a> )

## Target Details

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**Background:** 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). Recombinant human Hsp27 was overexpressed in *E. coli* and purified by conventional chromatography.

**Alternative Names:** Growth-related 25 kDa protein protein, CMT2F protein, Hsp27, Heat shock 27 kDa protein protein, Heat Shock Protein 27 protein, Hsp 28 protein, HspB1 protein, HSP 27 protein, Hsp28 protein, P25 protein, Stress responsive protein 27., DKFZp586P1322 protein, Heat shock 27kDa protein 1 protein, Estrogen regulated 24 kDa protein protein, HS.76067 protein, Hsp27 protein, Heat shock 27 kDa protein 28 kDa heat shock protein protein, Hsp-27 protein, Hsp25 protein, Hsp 27, at shock 25kDa protein 1 protein, Heat shock protein beta-1 protein, Hsp-27, Hspb1 protein, Hsp B1 protein, Hsp27 protein, Heat shock 28kDa protein 1 protein, Heat shock protein beta 1 protein, HspB1 protein, HSP25 protein, SRP27 protein, Heat Shock Protein27 protein, Hsp 27 protein

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**Molecular Weight:** 22.7 kDa (205 AA)

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**Pathways:** [MAPK Signaling](#), [Regulation of Actin Filament Polymerization](#), [Signaling Events mediated by VEGFR1 and VEGFR2](#), [Negative Regulation of intrinsic apoptotic Signaling](#), [VEGF Signaling](#)

## Application Details

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**Application Notes:** Hsp27 protein has been used in SDS PAGE and may be suitable for use in other assays to be determined by the end user.

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**Restrictions:** For Research Use only

## Handling

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**Format:** Liquid

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**Concentration:** 1 mg/mL

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**Buffer:** Supplied as a liquid in 20 mM Hepes, pH 7.5, containing 0 mM DTT, and 100 mM KCl.

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**Preservative:** Dithiothreitol (DTT)

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**Precaution of Use:** This product contains Dithiothreitol: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

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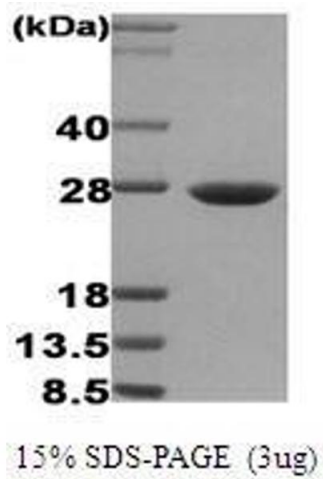
## Handling

Handling Advice: Avoid repeated freeze/thaw cycles.

Storage: RT/-20 °C

Storage Comment: Store at 4 °C for short term storage (1/2 weeks). Aliquot and store at -20 °C or -70 °C for long term storage.

## Images



### SDS-PAGE

**Image 1.** Figure annotation denotes ug of protein loaded and % gel used.