

## Product datasheet for SA6031

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## **HSPB1 / HSP27 Human Protein**

**Product data:** 

**Product Type:** Recombinant Proteins

**Description:** HSPB1 / HSP27 human recombinant protein, 0.1 mg

Species: Human
Expression Host: E. coli

**Expression cDNA Clone** MTERRVPFSL LRGPSWDPFR DWYPHSRLFD QAFGLPRLPE EWSQWLGGSS WPGYVRPLPP

or AA Sequence: AAIESPAVAA PAYSRALSRQ LSSGVSEIRH TADRWRVSLD VNHFAPDELT VKTKDGVVEI

TGKHEERQDE HGYISRCFTR KYTLPPGVDP TQVSSSLSPE GTLTVEAPMP KLATQSNEIT IPVTFESRAQ

LGGPEAAKSD ETAAK

Predicted MW: 22.7 kDa

Concentration: lot specific

**Purity:** >95% pure by SDS-PAGE

**Buffer:** Presentation State: Purified

State: Liquid purified protein

Buffer System: 20 mM Hepes (pH 7.5) containing 1 mM DTT, 100 mM KCl

Endotoxin: < 1.0 EU per 1µg of protein (determined by LAL method)

**Preparation:** Liquid purified protein

**Protein Description:** Recombinant Human Hsp27 was overexpressed in *E. coli* and purified by conventional

chromatography.

**Storage:** Store the antigen at 2-8°C for 1-2 weeks or (in aliquots) at -20°C to -70°C for longer.

Avoid repeated freezing and thawing.

**Stability:** Shelf life: one year from despatch.

**RefSeq:** NP 001531

**Locus ID:** 3315

UniProt ID: <u>P04792</u>, <u>V9HW43</u>

**Cytogenetics:** 7q11.23

**Synonyms:** CMT2F; HEL-S-102; HMN2B; HS.76067; Hsp25; HSP27; HSP28; SRP27





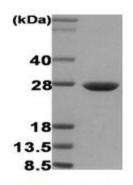
**Summary:** 

This gene encodes a member of the small heat shock protein (HSP20) family of proteins. In response to environmental stress, the encoded protein translocates from the cytoplasm to the nucleus and functions as a molecular chaperone that promotes the correct folding of other proteins. This protein plays an important role in the differentiation of a wide variety of cell types. Expression of this gene is correlated with poor clinical outcome in multiple human cancers, and the encoded protein may promote cancer cell proliferation and metastasis, while protecting cancer cells from apoptosis. Mutations in this gene have been identified in human patients with Charcot-Marie-Tooth disease and distal hereditary motor neuropathy. [provided by RefSeq, Aug 2017]

**Protein Pathways:** 

MAPK signaling pathway, VEGF signaling pathway

## **Product images:**



15% SDS-PAGE (3ug)