

AR09327PU-L**Human HSPB1 / HSP27 (1-205, His-tag) - Purified****Alternate names:**

28 kDa heat shock protein, Estrogen-regulated 24 kDa protein, HSP25, HSP28, Heat shock 27 kDa protein, Heat shock protein beta-1, SRP27, Stress-responsive protein 27

Quantity:

0.5 mg

Concentration:

1.0 mg/ml (determined by Bradford assay)

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).

Uniprot ID:

[P04792](#)

NCBI:

[NP_001531](#)

GeneID:

[3315](#)

Species:

Human

Source:

E. coli

Format:

State: Liquid purified protein

Purity: >95% by SDS - PAGE

Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 1 mM DTT, 10% glycerol

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

Description:

Recombinant human HSP27 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

AA Sequence:

MGSSHHHHHH SSGLVPRGSH MTERRVPFSL LRGPSWDPFR DWYPHSRLFD QAFGLPRLPE
EWSQWLGGSS WPGYVRPLPP AAIESPAVAA PAYSRALSRQ LSSGVSEIRH TADRWRVSLD
VNHFAPELDT VKTKDGVVEI TGKHEERQDE HGYISRCFTR KYTLPPGVDP TQVSSLSLSP
GTLTVEAPMP KLATQSNEIT IPVTFESRAQ LGGPEAAKSD ETAAK

Storage:

Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer.

Avoid repeated freezing and thawing.

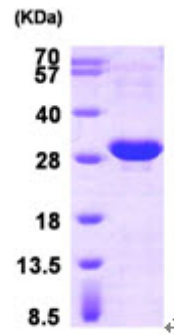
Shelf life: one year from despatch.

General Readings:

Friedman MJ., et al. (2009) J Biol Chem. 284(41):27944-51.

Brunet Simioni M., et al. (2009) Oncogene. 28(37):3332-44.

Pictures:



Recombinant human HSP27 (1-205 aa),
His-tagged: 15% SDS-PAGE (3 µg)

15% SDS-PAGE (3µg)

