## PRODUCT INFORMATION

## Expression system

E.coli

## Domain

1-205aa
UniProt No.
P04792
NCBI Accession No.
NP_001531

## Alternative Names

Heat shock protein beta-1, CMT2F, HMN2B, Hsp25, Heat shock protein beta-1

## PRODUCT SPECIFICATION

## Molecular Weight

24.9 kDa (225aa) confirmed by MALDI-TOF

## Concentration

1mg/ml (determined by Bradford assay)

## Formulation

Liquid in. 20 mM Tris-HCl buffer (pH 8.0) containing $10 \%$ glycerol, 1 mM DTT, 0.1 M NaCl .

## Purity

> 95\% by SDS-PAGE

## Endotoxin level

< 1 EU per lug of protein (determined by LAL method)

## Tag

His-Tag

## Application

SDS-PAGE

## Storage Condition

Can be stored at +2 C to +8 C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

## Description

Hsp27 (also known as the Estrogen-Regulated 24 K 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

## $13, ~ i, B i O$ we support you, we believe in your research

## Recombinant human HSP27 protein

Catalog Number: ATGP0444
including MAPKAP kinase 2 and the stress-activated protein kinase SAPK2 (p38). Recombinant human HSP27 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

## Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH> MTERRVPFSL LRGPSWDPFR DWYPHSRLFD QAFGLPRLPE EWSQWLGGSS WPGYVRPLPP AAIESPAVAA PAYSRALSRQ LSSGVSEIRH TADRWRVSLD VNHFAPDELT VKTKDGVVEI TGKHEERQDE HGYISRCFTR KYTLPPGVDP TQVSSSLSPE GTLTVEAPMP KLATQSNEIT IPVTFESRAQ LGGPEAAKSD ETAAK

## General References

Friedman MJ., et al. (2009) J Biol Chem. 284(41):27944-51.
Brunet Simioni M., et al. (2009) Oncogene. 28(37):3332-44.

## DATA

## SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

