

Recombinant human HSP27 protein

Catalog Number: HSP0503

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-205aa

UniProt No.

P04792

NCBI Accession No.

NP_001531

Alternative Names

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

PRODUCT SPECIFICATION

Molecular Weight

22.7 kDa (205aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM HEPES buffer (pH 7.4) containing 100mM KCl, 1mM DTT

Purity

> 95% by SDS-PAGE

Endotoxin level

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

Tag

Non-Tagged

Application

SDS-PAGE

Storage Condition

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

BACKGROUND

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Description

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.

Amino acid Sequence

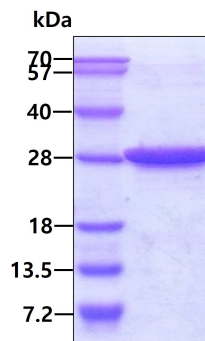
MTERRVPFSL LRGPSWDPFR DWYPHSRLFD QAFGLPRLPE EWSQWLGGSS WPGYVRPLPP AAIESPAVAA PAYSRALSRQ
LSSGVSEIRH TADRWRVSLD VNHFAPELDT VKTKDGVVEI TGKHEERQDE HGYSISRCFTR KYTLPPGVDP TQVSSSLSP
GTLTVEAPMP KLATQSNEIT IPVTFESRAQ LGGPEAAKSD ETAAK

General References

Ehrnsperger M., et al. (1997) EMBO J. 16, 221-229
Butt E., et al. (2001) J. Biol. Chem. 276, 7108-7113

DATA

SDS-PAGE



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