

Product information

HSP27, 1-205 aa

Human, His tagged, Recombinant, *E.coli*

Cat. No. IBHSP0503

Full name: Heat shock 27 kDa protein

NCBI Accession No.: NP_001531

Synonyms: Heat shock protein beta-1(HspB1), Estrogen-regulated 24 kDa protein, SRP27, HSP28

Description: Hsp27 (also known as the Estrogen-Regulated 24K protein and hsp28) 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.

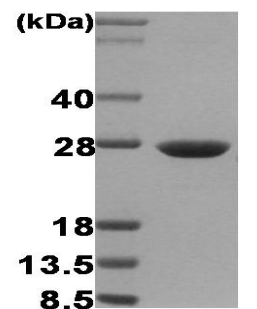
Form: Liquid. In 20 mM HepesI buffer (pH 7.5) containing 100 mM KCl, 1 mM DTT

Molecular Weight: 22.7kDa (205aa), confirmed by MALDI-TOF

Purity: > 95% by SDS - PAGE

Concentration: 1 mg/ml (determined by Bradford assay)

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



15% SDS-PAGE (3µg)

Sequences of amino acids:

MTERRVPFSL LRGPSWDPFR DWYPHSRLFD QAFGLPRLPE EWSQWLGGSS WPGYVRPLPP AAIESPAVAA PAYSRALSRQ LSSGVSEIRH
TADRWRVSLD VNHFAPELDT VKTKDGVVEI TGKHEERQDE HGYISRCFTR KYTLPPGVDP TQVSSLSPE 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

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.