

Recombinant Human Heat Shock 27kDa Protein 2

Cat. No. HSPB2-1255H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human HSP-27 is a single, non-glycosylated polypeptide chain containing 205 amino acids and having a molecular mass of 22.7 kDa. Hsp27 was over-expressed in <i>E.coli</i> and purified by conventional chromatography.
Species	Human
Source	<i>E.coli</i>
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).
Physical Appearance	Sterile Filtered colorless solution.
Purity	Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Formulation	The HSP27 protein solution contains 20mM Hepes pH-7.5, 1mM DTT and 100mM KCl.
Sequence	MTERRVPFSL LRGPSWDPFR DWYPHSRLFD QAFGLPRLPE EWSQWLGGSS

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WPGYVRPLPP AAIESPAVAA PAYSRALSRQ LSSGVSEIRH TADRWRVSLD
 VNHFAPDELT VKTKDGVVEI TGKHEERQDE HGYISRCFTR KYTLPPGVDP
 TQVSSSLSPE GTLTVEAPMP KLATQSNEIT IPVTFESRAQ LGGPEAAKSD ETAAK.

Stability

HSP-27 although stable at 4°C for 1 week, should be stored desiccated below -18°C.
 For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).
 Please prevent freeze-thaw cycles.

GENE INFORMATION

Gene Name

HSPB2 heat shock 27kDa protein 2 [Homo sapiens]

Synonyms

heat shock 27kDa protein 2; MKBP; HSP27; Hs.78846; LOH11CR1K; MGC133245;
 HSPB2; heat shock 27kD protein 2; heat-shock protein beta-2;HspB2;DMPK-binding
 protein

Gene ID

3316

mRNA Refseq

NM_001541

Protein Refseq

NP_001532

MIM

602179

UniProt ID

Q16082

**Chromosome
Location**

11q22-q23

Function

enzyme activator activity; protein binding

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