

Recombinant Human Hsp27

ORDERING INFORMATION

Catalog Number	Size
11110P-10	10ug
11110P-50	50ug
11110P-1000	1000ug

Formulation: Sterile-filtered colorless solution in 20mM HEPES, pH 7.5, 1mM DTT, and 100mM KCl. Purified by proprietary chromatographic techniques.

BACKGROUND

Hsp27, a mammalian heat shock protein, is expressed constitutively in many tissues, and its expression level increases in response to various stress conditions including elevated temperatures, toxic metals, drugs, and oxidants. Hsp27 is phosphorylated in vivo at three phosphorylation sites (Ser15, Ser78, and Ser82) by protein kinases including MAPKAP kinase 2 and stress-activated protein kinase SAPK2.

DESCRIPTION

Recombinant human Hsp-27 produced in *E. coli* is a single, non-glycosylated polypeptide containing 205 amino acids with a molecular weight of 22.7kDa.

SPECIFICATION SUMMARY

Source: *Escherichia coli*

Purity: Greater than 95% as determined by SDS-PAGE and RP-HPLC.

Accession number: P04792

Amino Acid Sequence:

MTERRVPFSLLRGPSWDPFR
DWYPHSRLFDQAFGLPRLPE
EWSQWLGGSSWPGYVRPLPP
AAIESPAVAAPAYSRLSRQ
LSSGVSEIRHTADRWRVSLD
VNHFAPDELTVKTKDGVVEI
TGKHEERQDEHGYISRCFTR
KYTLPPGVDPTQVSSLSPE
GTLTVEAPMPKLATQSNEIT
IPVTFESRAQ LGGPEAAKSD ETAAK

STORAGE AND STABILITY

Although stable at 4°C for 1 week, product is best stored at or below -20°C. Addition of a carrier protein (such as 0.1% HSA or BSA) is recommended for long-term storage.