

Recombinant Human Hsp90 beta1

ORDERING INFORMATION

Catalog nos.: 11106P-2 2ug
11106P-10 10ug
11106P-1000 1000ug

Format: Produced in *E. coli* as a single, non-glycosylated polypeptide containing 819 amino acids (aa 22-803) with a molecular weight of 94.4kDa. It is expressed with a 37 amino acid His-tag at the N-terminus.

Sterile-filtered colorless solution in 20mM Tris-Hcl, pH 8.0, 1mM EDTA, 0.1M NaCl, 1mM DTT, and 10% glycerol. Purified by proprietary chromatographic techniques.

BACKGROUND

Hsp90 β 1, a member of the Hsp90 family of molecular chaperones, is involved in maintaining protein homeostasis in the secretory pathway and in intracellular trafficking of peptides from the extracellular space to the MHC class I antigen-processing pathway of antigen-presenting cells. Hsp90 β 1 has key roles in signal transduction, protein folding, and protein degradation. It associates with several co-chaperones in folding of newly synthesized proteins and refolding of denatured proteins after stress. Hsp90 β 1 is highly expressed in human gastric carcinoma BGC-823 cells throughout the cell cycle.

SPECIFICATION SUMMARY

Source: *Escherichia coli*

Purity: Greater than 90% as determined by SDS-PAGE and RP-HPLC.

Accession number: P14625

Amino acid sequence: MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMDDE
VDVDGTVEED LGKSREGSRT DDEVVQREEE AIQLDGLNAS QIRELREKSE KFAFQAEVNR MMKLIINSLY
KNKEIFLREL ISNASDALDK IRLISLTDEN ALSGNEELTV KIKCDKEKNL LHVTDTGVGM TREELVKNLG
TIAKSGTSEF LNKMTEAQED GQSTSELIGQ FGVGFYSAFL VADKVIVTSK HNNDTQHIWE SDSNEFSVIA
DPRGNTLGRG TTITLVLKEE ASDYLELDTI KNLVKKYSQF INFPIYVWSS KTETVEEPM EEEEEAKEEKE
ESDDEAAVEE EEEEEKPKTK KVEKTVWDWE LMNDIKPIWQ RPSKEVEEDE YKAFYKSF SK
ESDDPMAYIH FTAEGEVTFK SILFVPTSAP RGLFDEYGS KSDYIKLYVR RVFITDDFHD MMPKYLNFVK
GVVDSDDLPL NVSRETLQQH KLLKVIKRL VRTKLDMIK IADDKYNDTF WKEFGTNIKL GVIEDHSNRT
RLAKLLRFQS SHHPTDITSL DQYVERMKEK QDKIYFMAGS SRKEAESSPF VERLLKGYE VIYLTEPVDE
YCIQALPEFD GKRFQNVAKE GVKFDESEKT KESREAVEKE FEPLLNWMKD KALKDKIEKA
VVSQRLTESP CALVASQYGW SGNMERIMKA QAYQTGKDIS TNYASQKKT FEINPRHPLI
RDMLRRIKED EDDKTVLDLA VVLFETATLR SGYLLPDTKA YGDRIERMLR LSLNIDPDAK VEEEEPEEPE
ETAEDTTEDT EQDEDEEMDV GTDEEEETAK ESTAEKDEL.

STORAGE AND STABILITY

Store at 4°C if entire vial will be used within 2-4 weeks. Store at or below -20°C for longer periods of time. Addition of a carrier protein (such as 0.1% HSA or BSA) is recommended for long-term storage.

For in vitro investigational use only. Not intended for therapeutic or diagnostic procedures.