

Recombinant Human Hsp90 beta1

ORDERING INFORMATION

Catalog Number	Size
11106P-2	2ug
11106P-10	10ug
11106P-100	100ug

Formulation: 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.

DESCRIPTION

Recombinant human Hsp90 produced in *E. coli* is 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.

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 LHVTDGTGVM TREELVKNLG
TIAKSGTSEF LNKMTEAQED GQSTSELIGQ
FGVGFYSAFL VADKVIVTSK HNNDTQHIWE
SDSNEFSVIA DPRGNTLGRG TTITLVLKEE
ASDYLELDTI KNLVKKYSQF INFPIYVWSS
KTETVEEPMEE EEEAAKEEKE ESDDEAAVEE
EEEEKPKTK KVEKTVDWE LMNDIKPIWQ
RPSKEVEEDE YKAFYKFSK ESDDPMAYIH
FTAEGEVTFK SILFVPTSAP RGLFDEYGSK
KSDYIKLYVR RVFITDDFHD MMPKYLNFVK
GVVDSDDLPL NVSRETQQH KLLKVIRKLL
VRKTLDMIKK IADDKYNDTF WKEFGTNIKL
GVIEDHSNRT RLAKLLRFQS SHHPTDITSL
DQYVERMKEK QDKIYFMAGS SRKEAESSPF
VERLLKKGYE VIYLTEPVDE YCIQALPEFD
GKRFQNVAKE GVKFDESEKT KESREAVEKE
FEPLLNWMKD KALKDKIEKA VVSQRLTESP
CALVASQYGW SGNMERIMKA QAYQTGKDIS
TNYASQKKT FEINPRHPLI RDMLRRIKED
EDDKTVLTLA VVLFETATLR SGYLLPDTKA
YGDRIERMLR LSLNIDPAK VEEEPPEEPE
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 for use in therapeutic or diagnostic procedures.*