

## Recombinant Human Hsp90 alpha

### ORDERING INFORMATION

Catalog Number	Size
11102P-5	5ug
11102P-20	20ug
11102P-1000	1000ug

**Formulation:** Sterile-filtered colorless solution (1mg/ml) in 20mM Tris-HCl, pH 7.4 and 100mM NaCl. Purified by proprietary chromatographic techniques.

### BACKGROUND

Hsp90, a mammalian heat shock protein, is a molecular chaperone that helps to keep a target protein in a folding-competent state. It has been found in cell cytosol, nucleus, and endoplasmic reticulum of many different tissues. Hsp90 functions as a dimer. It has an ATP-binding site and low ATPase activity. Its chaperone activity is enhanced at high temperatures, and its function is sensitive to bivalent cation concentrations.

### DESCRIPTION

Recombinant human Hsp90 produced in *E. coli* is a single, non-glycosylated polypeptide containing 732 amino acids with a molecular weight of 86.8kDa. It is expressed with an N-terminal 6X His-tag.

**Accession no.:** P07900.5.

**Purity:** >90% as determined by RP-HPLC and SDS-PAGE.

### AMINO ACID SEQUENCE

MGSSHHHHHH SSGLVPRGSH MPEETQTQDQ  
PMEEEEVETF AFQAEIAQLM SLIINTFYNS  
KEIFLRELIS NSSDALDKIR YESLTDPSKL  
DSGKELHINL IPNKQDRTL IVDTGIGMTK  
ADLINNLGTI AKSGTKAFME ALQAGADISM  
IGQFGVGFYS AYLVAEKVTV ITKHNDDEQY  
AWESSAGGSF TVRTDTGPEM GRGTKVILHL  
KEDQTEYLEE RRIKEIVKKH SQFIGYPITL  
FVEKERDKEV SDDEAEEKED KEEKEKEEK  
ESEDKPEIED VGSDEEEEEK DGDKTKKKKI  
KEYIDQEEL NTKPIWTRN PDDITNEEYG  
EFYKSLTNDW EDHLAVKHFS VEGQLEFRAL  
LFVPRRAPFD LFENRKKKNN IKLYVRRVFI  
MDNCEELIPE YLNFIRGVVD SEDLPLNISR  
EMLQQSKILK VIRKNLVKCC LELFTELAED  
KENYKKFYEQ FSKNIKLGIIH EDSQNRKKLS  
ELLRYYSAS GDEMVSLLDY CTRMKENQKH  
IYYITGETKD QVANSAFVER LRKHGLEVIY  
MIEPIDEYCV QQLKEFEGKT LVSVTKEGLE  
LPEDEEEKKK QEEKKTKFEN LCKIMKDILE  
KKVEKVVVSN RLVTSPPCIV TSTYGWANM  
ERIMKAQALR DNSTMGYMAA KKHLEINPDH  
SIETLRQKA EADKNDKSVK DLVILLYETA  
LLSSGFSLEDPQTHANRIYR MIKGLGLIDE  
DDPTADDTSA AVTEEMPPLE GDDDTSRMEE  
VD

### STORAGE AND STABILITY

Store at 4°C if entire vial will be used within 2-4 weeks of receipt. 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. Avoid multiple freeze-thaw cycles.

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