

**HSP90 (amino acids 1-732), Human, Recombinant, His-tag, E.coli**

**Cat.NO.: TP02527**

3th Edition

**Synonyms:**Heat shock protein HSP 90-alpha, HSP 86, Renal carcinoma antigen NY-REN-38, HSPC1, HSPCA

**Description:**HSP 90 is a human heat shock protein. In response to adverse change in their environment, cell from all organisms increase the expression of a class of proteins referred to as heat shock or stress protein. The Hsp90, a highly conserved stress-induced protein, is abundantly expressed in most tissues under nonstress conditions and is required for eukaryotic cell viability. Hsp90 is primarily a cytoplasmic protein and its function remains unknown. It exists in a dimeric form and has been observed to bind to several other cellular proteins such as retro-virus kinases, steroid receptor, heme-regulated protein kinase, actin and tubulin. Recombinant human Hsp90, fused to His-tag at N-terminus, was cloned into an E. coli expression vector and was purified to apparent homogeneity by using conventional column chromatography techniques.

**Form:**Liquid. In 20 mM Tris-HCl buffer (pH 7.4) containing 100 mM NaCl

**Molecular Weight:**86.8kDa (752aa), confirmed by MALDI-TOF

**Sequences:**

MGSSHHHHHSSGLVPRGSHMPEETQTQDQPMEEEEVETFAFQAEIAQLMSLIINTFYNSKEIFLRELISNSSDALD  
KIRYESLTDPSKLDSEKELHINLIPNKQDRTLTIVDTGIGMTKADLNNLGTIAKSGTKAFMEALQAGADISMIGQFGVG  
FYSAYLVAEKVTVITKHNDDEQYAWESSAGGSFTVRTDTGEPMGRGTKVILHLKEDQTEYLEERRIKEIVKHSQFI  
GYPITLFVEKERDKEVSDDEAEKEDKEEKEKEEKESEDKPEIEDVGSDEEEKKGDKKKKKIKIKEYIDQEELN  
KTKPIWTRNPDDITNEEYGEFYKSLTNDWEDHLAVKHFSVEGQLEFRALLFVPRRAPFDLFENRKKKNNIKLYVRRV  
FIMDNCEELIPEYLNFIKRVVDSDELPLNISREMLQQSKILKVIKKNLVKKCLELFTELAEDKENYKFFYEQFSKNIKLG  
IHEDSQNRKKLSELLRYYSASGDEMVSCLKDYCTRMKENQKHIIYITGETKDQVANSFVERLRKHGLEVIYMIPIID  
EYCVQQLKEFEGKTLVSVTKEGLELPEDEEEKQKQEKTKFENLCKIMKDILEKKVEKVVVSNRLVTSPCCIVTSTY  
GWTANMERIMKAQALRDNSTMGYMAAKKHLEINPDHSIIETLRQKAEADKNDKSVKDLVILLYETALLSSGFSLEDP  
QTHANRIYRMIKLGLGIDEDDPTADDTSAAVTEEMPPLGDDDDTSRMEEVD

**Purity:**> 95% by HPLC

**Concentration:**1 mg/ml (determined by Bradford assay)

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.