

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:

MGSSHHHHHHSSGLVPRGSHMPEETQTQDQPMEEEEVETFAFQAEIAQLMSLIINTFYSNKEIFLRELISNSSDALD
KIRYESLTDPSKLD SGKELHINLIPNKQDRTLITIVDTGIGMTKADLINNLGTIAKSGTKAFMEALQAGADISMIGQFGVG
FYSAYLVAEKVTITKHNDDEQYAWESSAGGSFTVRTDTGEPMGRGTKVILHLKEDQTEYLEERRIKEIVKKHSQFI
GYPI TLFVEKERDKEVSDDEAE EKEDKEEEKEKEEKESEDKPEIEDVGSDEEEEEKKDGD KKKKKKI KEKYIDQEELN
KTKPIWTRNPDDITNEEYGEFYKSLTNDWEDHLAVKHFSVEGQLEFRALLFVPRRAPFDLFENRKKKNNIKLYVRRV
FIMDNCEELIPEYLNFI RGVVDSEDLPLNISREMLQQSKILKVIRKNLVKKCLELFTELAEDKENYKKFYEQFSKNIKLG
IHEDSQNRKKLSELLRYYSASGDEMVS LKDYCTRMKENQKHIIYYITGETKDQVANS AFVERLRKHGLEVIYMI EPID
EYCVQQLKEFEGKTLVSVTKEGLELPEDEEEKKKQEEKTKFENLCKIMKDILEKKVEKVVVSNRLVTSPCCIVTSTY
GWTANMERIMKAQALRDNSTMGYMAAKKHLEINPDHSIIETLRQKAEADKNDKSVKDLVILLYETALLSSGFSLEDP
QTHANRIYRMIKLGLGIDEDDPTADDTSAAVTEEMP PLEGDDDTSRMEEVD

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.