

Product information

HSP90 α , 1-732 aa

Human, His tagged, Recombinant, *E.coli*

Cat. No. IBHSP0501

Full name: Heat shock protein HSP 90-alpha

NCBI Accession No.: NP_005339

Synonyms: HSP 86, Renal carcinoma antigen NY-REN-38, HSPC1, HSPCA

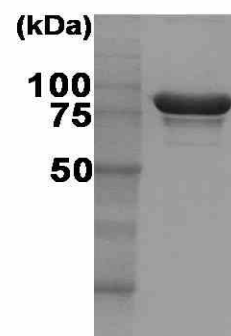
Description: HSP 90 is a human heat shock protein. In response to adverse change in their environment, cell from all organisms increase the expression of a class of proteins referred to as heat shock or stress protein. The Hsp90, a highly conserved stress-induced protein, is abundantly expressed in most 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 α , 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

Purity: > 90% by SDS - PAGE

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



10% SDS-PAGE (3ug)

Sequences of amino acids:

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MGSSHHHHHH SSSLVPRGSH MPEETQTQQD PMEEEEVETF AFQAEIAQLM SLIINTFYSN KEIFLRELIS NSSDALDKIR YESLTDPSKL
DSGKELHINL IPNKQDRTL IVDTGIGMTK ADLINNLGTI AKSGTKAFME ALQAGADISM IGQFGVGFYS AYLVAEKVTV ITKHNDDEQY
AWESSAGGSF TVRTDTGEPM GRGTVILHL KEDQTEYLEE RRIKEIVKKH SQFIGYPITL FVEKERDKEV SDDEAEKEED KEEEEKEEEK
ESEDKPEIED VGSDEEEEEK DGDKKKKKKI KEKYIDQEEL NKTKEIWRN PDDITNEEYG EFYKSLTNDW EDHLAVKHFS VEGQLEFRAL
LFVPRRAPFD LFENRKKKNN IKLYVRRVFI MDNCEELIPE YLNFIRGVVD SEDLPLNISR EMLQQSKILK VIRKNLVKKC LELFTELAED
KENYKKFYEQ FSKNIKLGII EDSQNRKKLS ELLRYYTSAS GDEMVSLEKY CTRMKENQKH IYYITGETKD QVANSFVER LRKHGLEVIY
MIEPIDEYCV QQLKEFEGKT LSVTKEGLE LPEDEEEKKK QEEKTKFEN LCKIMKDILE KKVEKVVSN RLVTSPPCIV TSTYGTANM
ERIMKAQALR DNSTMGYMAA KKHLEINPDH SIETLRQKA EADKNDKSVK DLVILLYETA LLSSGFSLEDPQTHANRIYR MIKLGGLIDE
DDPTADDTSA AVTEEMPLE GDDDSRMEE VD
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For research use only. This product is not intended or approved for human, diagnostics or veterinary use.

Product information

General references:

Lai, B-T., *et al.*(1984) *Molecular & Cellular Biol.* **4**: 2802-2810.

Pritchard, K. A., *et al.*(2001) *J. Biol. Chem.* **276**:17621-17624

Miyamoto, A., *et al.* (2002) *Nature* **416**:865-869

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.

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