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## Recombinant human HSP90 alpha protein

Catalog Number: HSP0501

#### PRODUCT INFORMATION

## **Expression system**

E.coli

#### **Domain**

1-732aa

#### **UniProt No.**

P07900

#### **NCBI Accession No.**

NP 005339.3

#### **Alternative Names**

Heat shock protein HSP 90-alpha, HSP 86, Renal carcinoma antigen NY-REN-38, HSPC1, HSPCA, Heat shock protein 90-alpha Renal carcinoma antigen NY REN 38, D6S182, FLJ26984, FLJ31884, Heat shock 90kDa protein 1 alpha, heat shock protein 90kDa alpha (cytosolic), class A member 2, HSP84, HSP86, Hsp89, HSP89A, Hsp90, HSP90A, HSP90AA1, HSP90ALPHA, HSP90N, HSPCAL3, HSPCB, HSPN, LAP2, Lipopolysaccharide associated protein 2, NY REN 38 antigen, hsp90, Heat shock protein HSP 90-alpha

## **PRODUCT SPECIFICATION**

## **Molecular Weight**

86.8 kDa (752aa) confirmed by MALDI-TOF

#### Concentration

1mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid. In Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

#### **Purity**

> 90% by SDS-PAGE

#### Tag

His-Tag

### **Application**

SDS-PAGE

## **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## **BACKGROUND**

#### 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



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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 alpha, 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.

## **Amino acid Sequence**

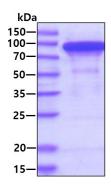
<MGSSHHHHHH SSGLVPRGSH> MPEETQTQDQ PMEEEEVETF AFQAEIAQLM SLIINTFYSN KEIFLRELIS NSSDALDKIR YESLTDPSKL DSGKELHINL IPNKQDRTLT IVDTGIGMTK ADLINNLGTI AKSGTKAFME ALQAGADISM IGQFGVGFYS AYLVAEKVTV ITKHNDDEQY AWESSAGGSF TVRTDTGEPM GRGTKVILHL KEDQTEYLEE RRIKEIVKKH SQFIGYPITL FVEKERDKEV SDDEAEEKED KEEEKEKEEK ESEDKPEIED VGSDEEEEKK DGDKKKKKKI KEKYIDQEEL NKTKPIWTRN PDDITNEEYG EFYKSLTNDW EDHLAVKHFS VEGQLEFRAL LFVPRRAPFD LFENRKKKNN IKLYVRRVFI MDNCEELIPE YLNFIRGVVD SEDLPLNISR EMLQQSKILK VIRKNLVKKC LELFTELAED KENYKKFYEQ FSKNIKLGIH EDSQNRKKLS ELLRYYTSAS GDEMVSLKDY CTRMKENQKH IYYITGETKD QVANSAFVER LRKHGLEVIY MIEPIDEYCV QQLKEFEGKT LVSVTKEGLE LPEDEEEKKK QEEKKTKFEN LCKIMKDILE KKVEKVVVSN RLVTSPCCIV TSTYGWTANM ERIMKAQALR DNSTMGYMAA KKHLEINPDH SIIETLRQKA EADKNDKSVK DLVILLYETA LLSSGFSLEDPQTHANRIYR MIKLGLGIDE DDPTADDTSA AVTEEMPPLE GDDDTSRMEE VD

#### **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

### **DATA**

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

