

# Recombinant Human Heat Shock Protein 90kDa Alpha (Cytosolic), Class A Member 1

Cat. No. HSP90AA1-318H Lot. No. (See product label)

## SPECIFICATION

**Product Overview** Recombinant human HSP90AA1, 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 (752 aa, 86.8 kDa).

**Species** Human

**Source** E.coli

**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.

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

**Molecular Weight** 86.8kDa (752aa).

**Purity** > 90% by SDS – PAGE.

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

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**Sequence**

MGSSHHHHHH SGLVPRGSH MPEETQTQDQ PEEEEEVETF AFQAEIAQLM  
SLIINTFYNS KEIFLRELIS NSSDALDKIR YESLTDPSKL DSGKELHINL  
IPNKQDRTLTV DVTGIGMTK ADLNNLGTI AKSGTKAFME ALQAGADISM  
IGQFGVGFYS AYLVAEKVTV ITKHNDDEQY AWESSAGGSF TVRTDTGPEM  
GRGTKVILHL KEDQTEYLEE RRIKEIVKKH SQFIGYPITL FVEKERDKEV  
SDDEAEEKED KEEKEKEEEK ESEDKPEIED VGSDEEEEEKK DGDKKKKKKI  
KEKYIDQEEL NKTPIWTRN PDDITNEEYG EFKSLTNDW EDHLAVKHFS  
VEGQLEFRAL LFPVRRAPFD LFENRKKKNN IKLYVRRVFI MDNCEELIPE  
YLNFIKVVVD SEDLPLNISR EMLQQSKILK VIRKNLVKCC LELFTELAED  
KENYKFFYEQ FSKNIKLGII EDSQNRKLS ELLRYYSAS GDEMVSCLKDY  
CTRMKENQKH IYYITGETKD QVANSFAVER LRKHGLEVIY MIEPIDEYCV  
QQLKEFEGKT LVSVTKEGLE LPEDEEEKKK QEEKKTKFEN LCKIMKDILE  
KKVEKVVVSN RLVTSPPCIV TSTYGWTANM ERIMKAQALR DNSTMGYMAA  
KKHLEINPDH SIIETLRQKA EADKNDKSVK DLVILLYETA LLSSGFSLED  
PQTHANRIYR MIKLGGLGIDE DDPTADDTSA AVTEEMPPLE GDDDTSRMEE VD

**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.

**GENE INFORMATION**

**Gene Name**

HSP90AA1

**Synonyms**

HSP90AA1; heat shock protein 90kDa alpha (cytosolic), class A member 1; Hsp90 α; HSPN; LAP2; HSP86; HSPC1; HSPCA; Hsp89; Hsp90; HSP89A; HSP90A; HSP90N; HSPCAL1; HSPCAL4; FLJ31884; HSP90AA1; Renal carcinoma antigen NY-REN-38; heat shock 90kD protein 1, alpha; heat shock 90kD protein 1, alpha-like 4; heat shock 90kD protein, alpha-like 4; heat shock 90kDa protein 1, alpha; heat shock protein 90kDa alpha (cytosolic), class A member 1.

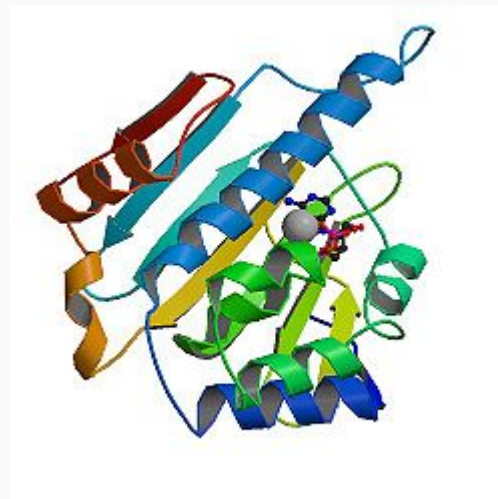
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<b>Gene ID</b>	3320
<b>mRNA Refseq</b>	NM_001017963.2
<b>Protein Refseq</b>	NP_001017963.2
<b>MIM</b>	140571
<b>UniProt ID</b>	Q86SX1
<b>Chromosome Location</b>	14q32.33
<b>Pathway</b>	Antigen processing and presentation; Prostate cancer; Cell Cycle, Mitotic; Metabolism of nitric oxide.
<b>Function</b>	ATP binding; TPR domain binding; TPR domain binding; nitric-oxide synthase regulator activity; nucleotide binding; protein homodimerization activity; unfolded protein binding.

**PDBrendering based on 1byq. Available structures: 1byq, 1osf, 1u**



1yc4, 1y

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