

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 SSGLVPRGSH MPEETQTQDQ PMEEEEVETF AFQAEIAQLM
 SLIINTFYSN KEIFLRELIS NSSDALDKIR YESLTDPSKL DSGKELHINL
 IPNKQDRTLIT IVDTGIGMTK ADLINNLGTI AKSGTKAFME ALQAGADISM
 IGQFGVGFYS AYLVAEKVTV ITKHNDDEQY AWESSAGGSF TVRTDTGEPM
 GRGTKVILHL KEDQTEYLEE RRIKEIVKKH SQFIGYPITL FVEKERDKEV
 SDDEAEEKED KEEEEKEEEK ESEDKPEIED VGSDEEEEEKK DGDKKKKKKI
 KEKYIDQEEL NKTKEIWRN PDDITNEEYG EFYKSLTNDW EDHLAVKHFS
 VEGQLEFRAL LFPVRRAPFD LFENRKKKNN IKLYVRRVFI MDNCEELIPE
 YLNFIRGVVD SEDLPLNISR EMLQQSKILK VIRKNLVKKC LELFTELAED
 KENYKKFYEQ FSKNIKLGII EDSQNRKKLS ELLRYTSAS GDEMVSLEKY
 CTRMKENQKH IYYITGETKD QVANSFAVER LRKHGLEVIY MIEPIDEYCV
 QQLKEFEGKT LVSVTKEGLE LPEDEEEKKK QEEKKTKFEN LCKIMKDILE
 KKVEKVVVSN RLVTSPPCIV TSTYGWTANM ERIMKAQALR DNSTMGYMAA
 KKHLEINPDH SIETLRQKA EADKNDKSVK DLVILLYETA LLSSGFSLED
 PQTHANRIYR MIKLGGLGIDE DDPTADDTSA AVTEEMPPLE GDDDTSRMEE VD

Storage

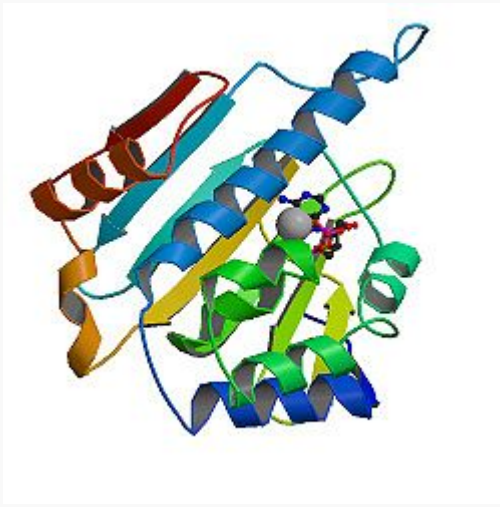
Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

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.

Gene ID	3320
mRNA Refseq	NM_001017963.2
Protein Refseq	NP_001017963.2
MIM	140571
UniProt ID	Q86SX1
Chromosome Location	14q32.33
Pathway	Antigen processing and presentation; Prostate cancer; Cell Cycle, Mitotic; Metabolism of nitric oxide.
Function	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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