

## HSP90AA1

### Recombinant Human Heat Shock Protein 90-alpha, His tag

<b>Catalog No.</b>	CRH113A	<b>Quantity:</b>	5 µg
	CRH113B		20 µg
	CRH113C		1.0 mg
	CRH113D		100 µg

**Alternate Names:** HSP90A, Heat shock 86 kDa, HSP 86, HSP86, Lipopolysaccharide-associated protein 2, LAP-2, LPS-associated protein 2, Renal carcinoma antigen NY-REN-38

**Description:** Heat shock protein 90 (HSP90A) has been identified in the cytosol, nucleus and endoplasmic reticulum, and is reported to exist in many tissue types. In several tissues, including smooth muscle, HSP90A comprises up to 2% of total cellular protein. HSP90A functions as a dimer, assembled as part of heterocomplex. It possesses ATP-binding site and low ATPase activity. HSP90A is able to associate with actin filaments in certain conditions. Another important property of HSP90A is the binding of unoccupied steroid hormone receptors. HSP90A has been characterized as a molecular chaperone able to keep the target protein in a folding-competent state. It has an enhanced chaperone activity in oligomeric form at high temperatures. HSP90A function is sensitive to bivalent cations concentration.

**UniProt ID:** P07900

**Gene ID:** 3320

**Concentration:** 1.0 mg/ml

**Source:** *E. coli*

**Molecular Mass:** 86.8 kDa (732 aa + N-terminal 20 aa His-tag)

**Formulation:** Sterile-filtered 20 mM Tris-HCl, 100 mM NaCl, pH 7.4

**Purity:** > 90.0%, as determined by RP-HPLC and SDS-PAGE.

**Tag:** N-terminal 20 aa His-tag

**Purification:** Purified by proprietary chromatographic techniques.

**Specific Activity:** Store at 2-8°C if entire vial will be used within 2-4 weeks. Store working aliquots at -20°C to -80°C for long-term storage. It is recommended that a carrier protein such as 0.1% HSA or BSA is added for long term storage. This depends upon the particular application employed. **Avoid repeated freeze-thaw cycles.**

**Amino Acid Sequence:** MGSSHHHHHH SGLVPRGSH MPEETQTQDQ PEEEEEVETF AFQAEIAQLM  
SLIINTFYNS KEIFLRELIS NSSDALDKIR YESLTDPSKL DSGKELHINL IPNKQDRTL  
IVDTGIGMTK ADLNNLGTI AKSGTKAFME ALQAGADISM IGQFGVGFYS  
AYLVAEKVTV ITKHNDDEQY AWESSAGGSF TVRTDTGEPM GRGTVILHL  
KEDQTEYLEE RRIKEIVKKH SQFIGYPITL FVEKERDKEV SDDEAEEKED  
KEEEKEKEEK ESEDKPEIED VGSDEEEEEK DGDKKKKKKI KEKYIDQEEL  
NKTPIWTRN PDDITNEEYG EFYKSLTNDW EDHLAVKHFS VEGQLEFRAL  
LFVPRRAPFD LFENRKKKNN IKLYVRRVFI MDNCEELIPE YLNFIRGVVD  
SEDLPLNISR EMLQQSKILK VIRKNLVKCC LELFTELAED KENYKKFYEQ FSKNIKLG  
EDSQNRKKLS ELLRYYTSAS GDEMVSLEKDY CTRMKENQKH IYYITGETKD  
QVANSFAFVER LRKHGLEVIY MIEPIDEYCV QQLKEFEGKT LVSVTKEGLE  
LPEDEEEKKK QEEKKTKFEN LCKIMKDILE KKVEKVVVSN RLVTSPPCIV  
TSTYGWTANM ERIMKAQALR DNSTMGYMAA KKHLEINPDH SIETLRQKA  
EADKNDKSVK DLVILLYETA LLSSGFSLEDPQTHANRIYR MIKLGGLGIDE  
DDPTADDTSA AVTEEMPPLE GDDTSTRMEE VD

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