
Product Data Sheet

Product Name: HSP90 Alpha Human
 Cat. No.: GP25100
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	HSPN; LAP2; HSP86; HSPC1; HSPCA; Hsp89; Hsp90; HSP90A; HSP90N; HSPCAL1; HSPCAL4; FLJ31884; Heat shock protein HSP 90-alpha; Renal carcinoma antigen NY-REN-38; HSP 86; HSP90AA1.		
Amino Acid Sequence	<p>MGSSHHHHHH SGLVPRGSH MPEETQTQDQ PMEEEEVETF AFQAEIAQLM SLIINTFYNS KEIFLRELIS NSSDALDKIR YESLTDPSKL DSGKELHINL IPNKQDRTLIT IVDTGIGMTK ADLINNLGTI AKSGTKAFME ALQAGADISM IGQFGVGFYS AYLVAEKVTV ITKHNDDEQY AWESSAGGSF TVRTDTGPEM GRGTKVILHL KEDQTEYLEE RRIKEIVKKH SQFIGYPITL FVEKERDKEV SDDEAEEKED KEEKEKEEEK ESEDKPEIED VGSDEEEEEKK DGDKKKKKKI KEKYIDQEEL NTKPIWTRN PDDITNEEYG EFYKSLTNDW EDHLAVKHFS VEGQLEFRAL LFPVRRAPFD LFENRKKKNN IKLYVRRVFI MDNCEELIPE YLNFIRGVVD SEDLPLNISR EMLQQSKILK VIRKNLVKKC LELFTELAED KENYKKFYEQ FSKNIKLGIIH EDSQNRKKLS ELLRYYSAS GDEMVS�KDY CTRMKENQKH IYYITGETKD QVANSASFVER LRKHGLEVIY MIEPIDEYCV QQLKEFEGKT LSVTKEGLE LPEDEEEKKK QEEKTKFEN LCKIMKDILE KKVEKVVVSN RLVTSPPCIV TSTYGWTANM ERIMKAQALR DNSTMGYMAA KKHLEINPDH SIIETLRQKA EADKNDKSVK DLVILLYETA LLSSGFSLEDPQTHANRIYR MIKLG LGIDE DDPTADDTSA AVTEEMPPLE GDDDTSRMEE VD.</p>		
Formulation	The HSP90 protein solution contains 20mM Tris-HCl, pH-7.4 and 100mM NaCl.		

Introduction

HSP90 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,

Caution: Product has not been fully validated for medical applications. For research use only.

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HSP90 comprises up to 2% of total cellular protein. HSP90 functions as a dimer, assembled as part of heterocomplex. It possesses ATP-binding site and low ATPase activity. HSP90 is able to associate with actin filaments in certain conditions. Another important property of HSP90 is the binding of unoccupied steroid hormone receptors. HSP90 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. HSP90 function is sensitive to bivalent cations concentration.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

Recombinant Human HSP-90 produced in E.Coli is a single, non-glycosylated polypeptide chain (aa 1-732) containing 752 amino acids and having a molecular mass of 86.8kDa. HSP90 is expressed with a 20 amino acid His tag at N-Terminus and purified by proprietary chromatographic techniques.

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