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HSP90 Alpha Human

Catalog #:HYPS-097

For research use only.

Description: 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.

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.

Source: Escherichia Coli.

Physical Appearance: Sterile filtered colorless solution.

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 SQ

Purity: Greater than 90.0% as determined by SDS-PAGE.

Formulation:
The HSP90 protein solution contains 20mM Tris-HCl, pH-7.4 and 100mM NaCl.

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.

Usage:
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drµgs, agricultural or pesticidal products, food additives or household chemicals.

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, 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.

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