



Product Datasheet

Product Name	Heat Shock Protein-90 Alpha Human Recombinant
Cata No	CB500770
Source	Escherichia Coli.
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.

Description

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.

Recombinant Human HSP-90 produced in E.Coli is a single, non-glycosylated polypeptide chain containing 732 amino acids and having a molecular mass of 86.8kDa.

HSP90 is expressed with a 6xHis tag and purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered colorless solution.

Purity

Greater than 95.0% as determined by:

- (a) Analysis by RP-HPLC.
- (b) Analysis 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.