

Product Information

HSP90 α , His-tagged, human recombinant, expressed in *Sf9* insect cells

Catalog Number **SRP5191**

Storage Temperature -70°C

Synonyms: HSP90AA1, HSPN, LAP2, HSP86, HSPC1, HSPCA, Hsp89, Hsp90, HSP90N, HSPCAL1, HSPCAL4, FLJ31884

Product Description

HSP90 α is a member of the HSP90 family of proteins which are important molecular chaperones involved in signal transduction, cell cycle control, stress management, folding, degradation, and transport of proteins.¹ HSP90 is a molecular chaperone that plays a key role in the conformational maturation of oncogenic signaling proteins, including HER2/ERBB2, AKT, RAF1, BCR-ABL, and mutated p53. HSP90 inhibitors bind to HSP90, and induce the proteasomal degradation of HSP90 client proteins. HSP90 α is an important mediator of cancer cell invasion and is expressed extracellularly on fibrosarcoma and breast cancer cells where it interacts with MMP2.²

Recombinant, full-length, human HSP90 α was expressed by baculovirus in *Sf9* insect cells using a C-terminal His tag. The gene accession number is NM_005348. Recombinant protein stored in 50 mM MOPS, pH 7.0, 300 mM NaCl, 150 mM imidazole, 0.1 mM PMSF, 0.25 mM DTT, and 25% glycerol

Molecular mass: ~94 kDa

Purity: 70-95% (SDS-PAGE, see Figure 1)

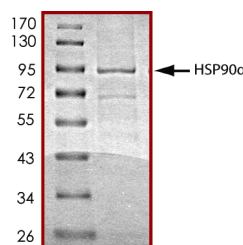
Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

The product ships on dry ice and storage at -70°C is recommended. After opening, aliquot into smaller quantities and store at -70°C . Avoid repeated handling and multiple freeze/thaw cycles.

Figure 1.
SDS-PAGE Gel of Typical Lot
70–95% (densitometry)



References

1. Csermely, P. et al., The 90-kDa molecular chaperone family: structure, function, and clinical applications. *Pharmacol. Ther.*, **79**,129-168 (1998).
2. Eustace, B.K. et al., Functional proteomic screens reveal an essential extracellular role for hsp90-alpha in cancer cell invasiveness. *Nature Cell Biol.*, **6**, 507-514 (2004).

FF,DKF,MAM 10/11-1