

Product Information

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

Catalog Number **SRP5256**
Storage Temperature -70°C

Synonyms: AATYK, LMTK1, KIAA0641

Product Description

HSP90 β 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 proteins have been found in a variety of organisms suggesting they are ancient and conserved. HSP90 binds to client proteins (such as steroid receptors, AKT, Bcr-Abl, Apaf-1, survivin, and cyclin dependent kinases) and acts as a molecular chaperone. Failure of HSP90 chaperone activity leads to misfolding of client proteins, which leads to ubiquitination and proteasome degradation, and thus deregulation of cellular homeostasis.²

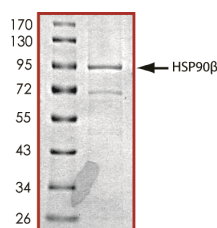
Recombinant full length human HSP90 β was expressed by baculovirus in *Sf9* insect cells using a C-terminal His-tag. The gene accession number is NM_007355. It is supplied in 50 mM MOPS, pH 7.0, 300 mM NaCl, 150 mM imidazole, 0.1 mM PMSF, 0.25 mM DTT, and 25% glycerol.

Molecular mass: ~91 kDa

The enzymatic activity of this product has not been determined.

Figure 1.

SDS-PAGE Gel of Typical Lot:
 $\geq 70\%$ (SDS-PAGE, densitometry)



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.

References

1. Csermely, P. et al., The 90-kDa molecular chaperone family: structure, function, and clinical applications. *Pharmacol. Ther.*, **79**(2),129-68 (1998).
2. Georgakis, G.V. et al., Heat-shock protein 90 inhibitors in cancer therapy: 17AAG and beyond. *Future Oncol.*, **1**(2), 273-81 (2005).

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