

Heat Shock Protein 90β

Human, Recombinant (rHuHSP90β)

Expressed in *E. coli*

Cat. No. CRP0846

Lot. No. (See product label)

PRODUCT INFORMATION

Description: An approximately 90 kDa heat shock protein constitutively expressed in the cytoplasm. It exists as a dimer and has been observed to bind other cellular proteins such as p60v-src, steroid receptors, heme-regulated protein kinase, actin, and tubulin. Bind to histones with high affinity and induces chromatin condensation. Human recombinant HSP90β is expressed in *E. coli*.

M. W. : 85,132 Da

Recombinant: Expressed in *E. coli*

Purity: >95% as determined by SDS-PAGE.

Specific Activity: The biological activity of GDNF is measured by its ability to support survival and stimulate neurite outgrowth of cultured embryonic chick dorsal root ganglia. Activity can also be measured by its ability to bind recombinant human GFRα1/Fc.

Storage buffer: Liquid. In PBS Buffer. Avoid freeze/thaw cycles.

REFERENCES

1. Rebbe N F, et al. Nucleotide sequence and regulation of a human 90-kDa heat shock protein gene. *J Biol Chem.* 1989; 264:15006-15011.
2. Csermely P, et al. The 90-kDa molecular chaperone family: Structure, function, and clinical applications. A comprehensive review. *Pharmacol Ther.* 1998; 79: 129–168.
3. Zhao R, et al. Navigating the chaperone network: An integrative map of physical and genetic interactions mediated by the hsp90 chaperone. *Cell.* 2005; 120: 715–727.
4. Pratt W B, Toft D O. Regulation of signaling protein function and trafficking by the hsp90/hsp70-based chaperone machinery. *Exp Biol Med (Maywood)* .2003; 228: 111–133.

FOR RESEARCH USE ONLY



Solid ribbon model of the [yeast](#) Hsp90-dimer ([α-helices](#) = red, [β-sheets](#) = cyan, loops = grey) in complex with ATP (red stick diagram) based on [PDB 2CG9](#).

GENE INFORMATION

Gene Name: [HSP90B1](#)

Synonyms: ECGP; GP96; GRP94; TRA1; 94 kDa glucose-regulated protein; Endoplasmic precursor; Heat shock protein 90 kDa beta member 1; Tumor rejection antigen 1; Tumor rejection antigen-1 (gp96); endothelial cell (HBMEC) glycoprotein; glucose regulated protein, 94 kDa, gp96 homolog; heat shock protein 90kDa beta (Grp94), member 1; tumor rejection antigen (gp96) 1

mRNA Refseq: [NM_003299.1](#)

Protein Refseq: [NP_003290.1](#)

MIM: [191175](#)

GeneID: [7184](#)

Uniprot ID: [O95433](#)

Chromosome Location: 12q24.2-q24.3

Function: ATP binding, RNA binding, calcium ion binding, low-density lipoprotein receptor binding, nucleotide binding, unfold protein binding, virion binding.

Process: anti-apoptosis, protein folding, protein transport, response to hypoxia, sequestering of calcium ion.

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