

Heat Shock Protein 90β Fragment 2

Human, Recombinant (rHuHSP90β)

Expressed in *E. coli*

Cat. No. CRP0847

Lot. No. (See product label)

PRODUCT INFORMATION

Description: HSP90β Fragment 2 is the middle domain and c-terminal of HSP90β, it is his-tagged and expressed in *E. coli*.

M. W. : 54,462 Da

Recombinant: Expressed in *E. coli*

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

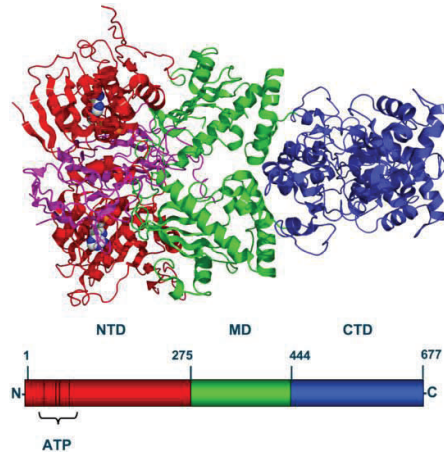
Specific Activity: The biological activity of GDNF is measured by its ability to support survival and stimulate neurite outgrowth of cultured embryonic chick dorsal root ganglia. Activity can also be measured by its ability to bind recombinant human GFRα1/Fc.

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



Domain structure of the yeast heat-inducible Hsp90. **Top:** 3D structure of the dimeric Hsp90 based on [PDB 2CG9](#) coordinates. Bound ATP molecules are represented by space filling spheres. **Bottom:** 1D sequence of the yeast Hsp90. NTD= N-terminal domain (red), MD = middle domain (green), CTD = C-terminal domain (blue).

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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