



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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## HSP90 Beta Protein

Human Recombinant Human HSP90 beta Full Length Protein  
Catalog No. SPR-102



Discovery through partnership | Excellence through quality

### Overview

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#### Product Name

HSP90 beta Protein

#### Description

Human Recombinant Human HSP90 beta Full Length Protein

#### Applications

WB, SDS-PAGE, Functional Assay, ELISA, Co-IP

#### Concentration

1.7 mg/ml

#### Conjugates

No tag

#### Nature

Recombinant

#### Species

Human

#### Expression System

Baculovirus/Hi5 cells

#### Amino Acid Sequence

MPEEVHHGEE EVETFAFQAE IAQLMSLIIN TFYSNKEIFL RELISNASDA LDKIRYESLT DPSKLDGKE LKIDIIPNPQ ERTLTLVDTG IGMTKADLIN NL  
GTIAKSGT KAFMEALQAG ADISMIGQFG VGFYSAYLVA EKVVITKHN DDEQYAWESS AGGSFTVRAD HGEPIGRGT

#### Protein Length

Full Length

### Properties

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#### Storage Buffer

20mM Tris, pH7.5, 175 mM NaCl, 0.1 mM EDTA, 10% glycerol, 1 mM DTT

#### Storage Temperature

-20°C

#### Shipping Temperature

Blue Ice or 4°C

#### Purification

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Affinity Purified, Endotoxin-free

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### Specificity

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~90 kDa

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### Cite This Product

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Human Recombinant HSP90 beta Protein (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SPR-102)

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### Certificate Of Analysis

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This product has been certified >90% pure using SDS-PAGE analysis.

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## Biological Description

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### Alternative Names

FLJ26984 Protein, HSP84 Protein, HSP90 Protein, HSP90B Protein, HSPC2 Protein, HSPCB Protein

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### Research Areas

Cancer, Heat Shock

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### Cellular Localization

Cytoplasm, Melanosome

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### Accession Number

NP\_031381.2

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### Gene ID

3326

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### Swiss Prot

P08238

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### Scientific Background

HSP90 is a highly conserved and essential stress protein that is expressed in all eukaryotic cells. From a functional perspective, HSP90 participates in the folding, assembly, maturation, and stabilization of specific proteins as an integral component of a chaperone complex (1-4). Despite its label of being a heat-shock protein, HSP90 is one of the most highly expressed proteins in unstressed cells (1-2% of cytosolic protein). It carries out a number of housekeeping functions – including controlling the activity, turnover, and trafficking of a variety of proteins. Most of the HSP90-regulated proteins that have been discovered to date are involved in cell signaling (5-6). The number of proteins now known to interact with HSP90 is about 100. Target proteins include the kinases v-Src, Wee1, and c-Raf, transcriptional regulators such as p53 and steroid receptors, and the polymerases of the hepatitis B virus and telomerase.5. When bound to ATP, HSP90 interacts with co-chaperones Cdc37, p23, and an assortment of immunophilin-like proteins, forming a complex that stabilizes and protects target proteins from proteasomal degradation. In most cases, HSP90-interacting proteins have been shown to co-precipitate with HSP90 when carrying out immunoadsorption studies, and to exist in cytosolic heterocomplexes with it. In a number of cases, variations in HSP90 expression or HSP90 mutation has been shown to degrade signaling function via the protein or to impair a specific function of the protein (such as steroid binding, kinase activity) in vivo. Ansamycin antibiotics, such as geldanamycin and radicicol, inhibit HSP90 function (7). Looking for more information on HSP90? Visit our new HSP90 Scientific Resource Guide at <http://www.HSP90.ca>.

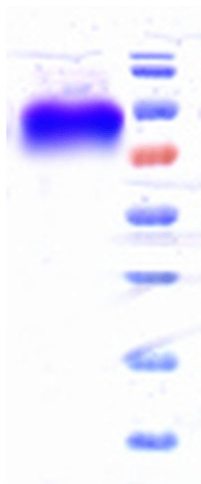
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### References

1. Arlander S.J.H., et al. (2003) *J Biol Chem.* 278: 52572-52577.
  2. Pearl H., et al. (2001) *Adv Protein Chem.* 59:157-186.
  3. Neckers L., et al. (2002) *Trends Mol Med.* 8:555-561.
  4. Pratt W., Toft D. (2003) *Exp Biol Med.* 228:111-133.
  5. Pratt W., Toft D. (1997) *Endocr Rev.* 18: 306-360.
  6. Pratt W.B. (1998) *Proc Soc Exptl Biol Med.* 217: 420-434.
  7. Whitesell L., et al. (1994) *Proc Natl Acad Sci USA.* 91: 8324- 8328.
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## Product Images

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SDS-PAGE of 90kDa Hsp90beta protein (SPR-102).

## Product Citations (5)

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### Immunoprecipitation

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**Hsp90 Binds Directly to Fibronectin (FN) and Inhibition Reduces the Extracellular Fibronectin Matrix in Breast Cancer Cells.**

Hunter, M. C. et al. (2014) PLoS One. 9(1):e86842.

**PubMed ID:** 24466266    **Applications:** Immunoprecipitation

**Heat Shock protein 90: Role in Enterovirus 71 Entry and Assembly and Potential Target for Therapy.**

Tsou, Y. et al. (2013) PLoS ONE. 8(10): e77133.

**PubMed ID:** 24098578    **Applications:** Immunoprecipitation

### ELISA

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**HAX-1 regulates cyclophilin-D levels and mitochondria permeability transition pore in the heart.**

Lam, C.K. et al. (2015) Proc Natl Acad Sci U S A. [Epub ahead of print]

**PubMed ID:** 26553996    **Applications:** ELISA

### Other Citations

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**A small molecule mitigates hearing loss in a mouse model of Usher syndrome III.**

Alagramam, K.N. et al. (2016) Nat Chem Biol. [Epub ahead of print]

**PubMed ID:** 27110679    **Applications:** Functional Assay

**STAT3 interacts directly with Hsp90.**

Prinsloo, E., Kramer, A.H., Edkins, A.L. and Blatch, G.L. (2012) IUBMB Life. 64 (3): 266-273.

**PubMed ID:** 22271514    **Applications:** Surface Plasmon Resonance Spectroscopy

## Reviews

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Based on validation through cited publications.



**StressMarq Biosciences**

June 15, 2016:

