



# SZABO SCANDIC

Part of Europa Biosite

## 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

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## P23 Protein

Human Recombinant p23 Protein  
Catalog No. SPR-303



Discovery through partnership | Excellence through quality

### Overview

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#### Product Name

p23 Protein

#### Description

Human Recombinant p23 Protein

#### Applications

WB, SDS-PAGE, Functional Assay

#### Concentration

1 mg/ml

#### Conjugates

No tag

#### Nature

Recombinant

#### Species

Human

#### Expression System

E. coli

#### Amino Acid Sequence

SHMQPASAKWYDRRDYVFIEFCVEDSKDVNVNFEKSKLTFSCLOGSDNFKHLNEIDLFHCIDPNDSKHKRTDRSILCCLRKGESGQSWPRLTKERAKLNWL  
SVDFNNWKDWEDDSDMSNFDRFSEMNNMGGDEDVDLPEVDGADDDSQDSDDEKMPDLE

### Properties

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#### Storage Buffer

20mM HEPES buffer pH7.2, 80mM NaCl, 10% glycerol

#### Storage Temperature

-20°C

#### Shipping Temperature

Blue Ice or 4°C

#### Purification

Affinity Purified

#### Specificity

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~23 kDa

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### Cite This Product

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Human Recombinant p23 Protein (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SPR-303)

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### Certificate Of Analysis

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This product has been certified >90% pure using SDS PAGE analysis. 4uM SPR-303, when added to 2uM SPR-300 (Aha1)-activated HSP90 (2uM; His-tagged HSP90 beta) in 33mM Hepes pH7.2, 30mM NaCl, 5mM MgCl<sub>2</sub>, 1mM DTT, 1.5mM ATP in a 100ul reaction at 37 degrees C, eliminated all Aha1-mediated ATPase stimulation as well as intrinsic HSP90 ATPase activity. (This is an enzyme-linked ATP regeneration assay tracking loss of NADH absorbance at 340nm).

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## Biological Description

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### Alternative Names

Sid 3177 Protein, Co chaperone p23 Protein, cPGES Protein, HSP90 co chaperone Protein, cytosolic prostaglandin E2 synthase Protein, PTGES3 Protein, TEBP Protein, Prostaglandin E synthase 3 protein

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### Research Areas

Cancer, Heat Shock

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### Cellular Localization

Cytoplasm

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### Accession Number

NP\_006592.3

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### Gene ID

10728

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### Swiss Prot

Q15185

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### Scientific Background

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p23 is a highly conserved ubiquitous protein, known to have an important function as a cochaperone for the HSP90 chaperoning system (1). Studies have revealed that p23 is a small protein (18 to 25 kDa) with a simple structure (2, 3). p23 does not have any structural homology with any other known proteins (1). p23 was first discovered as a part of the HSP90-progesterone receptor complex along with HSP70, p54 and p50 (1). p23 is a phosphor-protein, which is highly acidic and has an aspartic acid-rich c-terminal domain (1). Numerous studies have found p23 to be associated with other client proteins like Fes tyrosine kinase (4), the heme regulated kinase HRI (5), hsf1 transcription factor (4), aryl hydrocarbon receptor (4), telomerase (6), and Hepadnavirus reverse transcriptase (7). In spite of several years of study, the exact functional significance of p23 is still not clear (8). p23 is thought to be involved in the adenosine triphosphate-mediated HSP90 binding of client proteins (8). Since many HSP90 client proteins are involved in oncogenic survival signaling, a recent study has concluded p23 to be a promising target in leukemic apoptosis (9). HSP90 and its co-chaperone p23 are certainly among the emerging anti-tumor targets in oncology.

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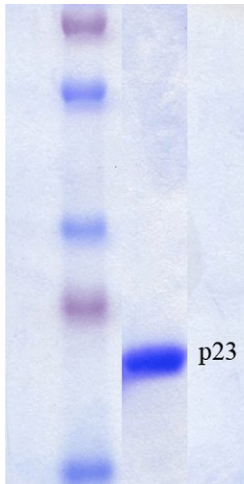
### References

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  2. Weikl T., Abelmann K. & Buchner J. (1999) J Mol Biol. 293: 685-91.
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  4. Nair S.C., et al. (1996) Cell Stress Chaperones. 1: 237-50.
  5. Xu Z., et al. (1997) Eur J Biochem. 246, 461-70.
  6. Holt S.E., et al. (1999) Genes Dev. 13: 817-26.
  7. Hu J., Toft D., Anselmo D. & Wang X. (2002) J Virol. 76: 269-79.
  8. Felts S.J. & Toft D.O. (2003) Cell Stress Chaperones. 8: 108-13.
  9. Gausdal G., Gjertsen B.T., Fladmark K.E., Demol H., Vandekerckhove J. & Doskeland S.O. (2004) Leukemia.
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## Product Images

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SDS-PAGE of native human 23kDa p23 protein (SPR-303).

## Product Citations (0)

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Currently there are no citations for this product.

## Reviews

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There are no reviews yet.