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Produktinformation

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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HOP Protein

Human Recombinant HOP Protein
Catalog No. SPR-302

StressMarq Biosciences INC.
Discovery through partnership | Excellence through quality

Overview

Product Name

HOP Protein

Description

Human Recombinant HOP Protein

Applications

WB, SDS-PAGE, Functional Assay

Concentration

1 mg/ml

Conjugates

His tag

Nature

Recombinant

Species

Human

Expression System

E. coli

Amino Acid Sequence

MGHHHHHHMEQVNELKEKGNKALSVGNIDDALQCYSEAIKLDPHNHVLYSNRSAAYAKKGDYQKAYEDGCKTVDLKPDWGKGYSRKAAALEFLNRFEEAKRTYEEGLKHEANNPQLKEGLQNMEARLAERKFMNPFNMPNLYQKLESDPRTRTLLSDPTYRELIEQLRNKPSDLGTKLQDPRIMTTLSVLLGVDLGSMD

Properties

Storage Buffer

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

Storage Temperature

-20ºC

Shipping Temperature

Blue Ice or 4ºC

Purification

Affinity Purified

Specificity

~63 kDa

Cite This Product

Human Recombinant HOP Protein (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SPR-302)

Certificate Of Analysis

This product has been certified >90% pure using SDS PAGE analysis. 4uM SPR-302, when added to 2uM SPR-300 (Aha1)-activated HSP90 (2uM; His-tagged HSP90 beta) in 33mM Hepes pH7.2, 30mM NaCl, 5mM MgCl2, 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).

Biological Description

Alternative Names

HSP co chaperone Protein

Research Areas

Cancer, Heat Shock

Cellular Localization

Cytoplasm, Nucleus

Accession Number

NP_006810.1

Gene ID

10963

Swiss Prot

P31948

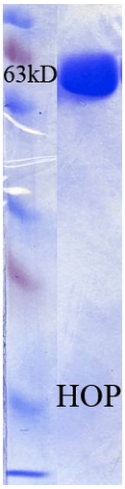
Scientific Background

Hop (HSP70/HSP90 Organizing Protein), or Stress-induced Phosphoprotein 1 (STI1) as it is also known, is a 60kDa protein that belongs to the large group of co-chaperones which regulate and assist the major chaperones. It is located in diverse cellular regions and can move between the cytoplasm and the nucleus. It functions to reversibly link together the protein chaperones HSP70 and HSP90. HOP contains three tetratricopeptide repeat (TPR) domains, TPR1, TPR2a and TPR2b. HSP70 binding has been localized to TRP1 and sp90 binding have been localized to TPR2a (1). It has also been found to modulate the chaperone activities of the linked proteins and possible interacts with other chaperones and proteins. It has also been found to participate in other complexes besides the HSP70/HSP90 one (2). HOP is closely related to human 63kDa protein that is sensitive to simian virus SV40 transformation, and is related to the yeast heat-shock- responsive STI1 gene product (3, 4).

References

1. Flom G., Behal R.H., Rosen L., Cole D.G., Johnson J.L. (2007) Biochem J. 404(1): 159-167.
2. Harst A., Lin H., Obermann W.M. (2005) Biochem J. 387 (pt3): 789-796.
3. Honore B.H., et al. (1992) J Biol Chem. 267: 8485-8491.
4. Nicolet C.M., et al. (1989) Mol Cell Bio. 9: 3638-3646.

Product Images



SDS-PAGE of his-tagged human HOP protein (SPR-302).

Product Citations (3)

Other Citations

Hitting a Moving Target: How Does an N-Methyl Group Impact Biological Activity?

Koay, Y.C. et al. (2016) ChemMedChem. [Epub ahead of print].

PubMed ID: 26805515 **Applications:** Protein Binding Assay

Dimerization of a heat shock protein 90 inhibitor enhances inhibitory activity.

Wahyudi, H., Wang, Y. and McAlpine, S. R. (2014) Org Biomol Chem. 12(5):765-73.

PubMed ID: 24323090 **Applications:** Protein Binding Assay

Knockdown of Hop downregulates RhoC expression, and decreases pseudopodia formation and migration in cancer cell lines.

Willmer, T., Contu, L., Blatch, G.L., and Edkins, A.L. (2013) Cancer Lett. 328 (2): 252-260.

PubMed ID: 23036489 **Applications:** Actin co-sedimentation assay

Reviews

Based on validation through cited publications.

★★★★★

StressMarq Biosciences
June 15, 2016: