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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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AHA1 Protein

Human Recombinant AHA1 Protein
Catalog No. SPR-300



Discovery through partnership | Excellence through quality

Overview

Product Name

AHA1 Protein

Description

Human Recombinant AHA1 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

SHMAKWGEGDPRWIVEERADATNVNNWHWTERDASNWSTDKLTFLAVQVQNEEGKCEVTEVSKLDGEASINNRKGKLIFFYEWVSVKLNWTGTSKSGVQYKKGHVEIPNLSDENSVDEVEISVSLAKDEPDTNLVALMKKEGVKLLREAMGIYISTLKTFTQGMILPTMNGESVDPVGPALKTEERKAKPAPSKTQA

Properties

Storage Buffer

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

Storage Temperature

-20°C

Shipping Temperature

Blue Ice or 4°C

Purification

Multi-Step Purified

Specificity

~38 kDa

Cite This Product

Human Recombinant AHA1 Protein (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SPR-300)

Certificate Of Analysis

This product has been certified >90% pure using SDS PAGE analysis. 2uM SPR-300 generated a 9-fold ATPase activation of 2uM HSP90 (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. (This is an enzyme-linked ATP regeneration assay tracking loss of NADH absorbance at 340nm.)

Biological Description

Alternative Names

Aha1 Protein, SHSA1 Protein, HSPC322 Protein, p38 Protein

Research Areas

Cancer, Heat Shock, Cell Signaling, Chaperones, Trafficking

Cellular Localization

Cytoplasm

Accession Number

NM_036243.1

Gene ID

10598

Swiss Prot

O95433

Scientific Background

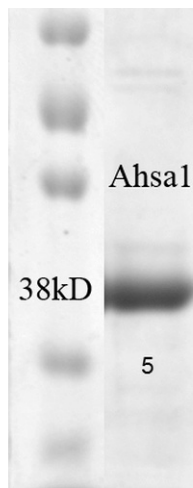
Aha1 is a member of the HSP90 cochaperone family, and is thought to stimulate HSP90 ATPase activity by competing with p23 and other co-chaperones for HSP90 binding (1, 2). It may affect a step in the endoplasmic reticulum to Golgi trafficking. Aha1 also interacts with HSPCA/HSP90 and with the cytoplasmic tail of the vesicular stomatitis virus glycoproteins (VSV G) (3). Aha1 is expressed in numerous tissues, including the brain, heart, skeletal muscle, and kidney, and at low levels, the liver and placenta. Aha1 might be a potential therapeutic strategy to increase sensitivity to HSP inhibitors (4).

References

1. Hainzl O., Lapina M.C., Buchner J., Richter K. (2009) J Biol Chem. Epub.
 2. Harst A., Lin H., Obermann W.M. (2005) Biochem J. 387 (pt.3): 789-796.
 3. Lotz G.P., Brychzy A., Heinz S., Obermann W.M. (2008) J Cell Sci. 121(pt.5): 717-723.
 4. Holmes J.L., Sharp S.Y., Hobbs S., Workman P. (2008) Cancer Res. 68(4): 1188-1197.
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Product Images

SDS-PAGE of native human 38kDa Aha1 protein (SPR-300).



Product Citations (1)

ATPase Activity Assay

Chemical proteomics-driven discovery of oleocanthal as an Hsp90 inhibitor.

Margarucci, L. et al. -2013 Chem Commun (Camb). 49(52):5844-6.

PubMed ID: 23703283 **Applications:** ATPase activity assay

Reviews

Based on validation through cited publications.



StressMarq Biosciences
June 15, 2016: