

Ahsa1 Protein (Active)

Catalog# SPR-309A/B/C

Size: 50/100/200µg

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This product is for *in vitro* research use only and is not intended for use in humans or animals

StressMarq

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Product	Recombinant Human Aha1 Protein, his tag
Source	Human cDNA; Swiss/Prot: O95433
Cited Applications	WB control, functional/activity studies
Purity	>90%
Format	20mM HEPES buffer pH 7.2, 80mM NaCl in 10% glycerol
Concentration	1.0mg/mL
Storage and stability	-20°C; 1 year+; shipped on cold packs or ambient

Selected 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.

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).

Certificate of Analysis

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

2uM SPR-309 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.)

Material Safety Data Sheet

Ahsa1 (Human) Protein SPR-309

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The below information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. StressMarq shall not be held liable for any damage resulting from handling or from contact with the above product. See the Technical Specification, Packing Slip, Invoice, and Product Catalogue for additional terms and conditions of sale.

Hazardous Ingredients

The physical, chemical and toxicological properties of these components have not been fully investigated. It is recommended that all laboratory personnel follow standard laboratory safety procedures when handling this product. Safety procedures should include wearing OSHA approved safety glasses, gloves and protective clothing. Direct physical contact with this product should be avoided.

Known Hazardous Components

CAS Number

Percent

None

Physical Data

This product consists of purified protein in Hepes buffer in 10% glycerol shipped on gel packs. The physical properties of this product have not been investigated thoroughly.

Fire and Explosion Hazard and Reactivity Data

NOT APPLICABLE

Toxicological Properties

May be harmful by inhalation, ingestion, or skin absorption. The toxicological properties of this product have not been investigated thoroughly. Exercise due caution.

Preventative Measures

Wear chemical safety goggles and compatible chemical-resistant gloves. Avoid inhalation, contact with eyes, skin or clothing.

Spill and Leak Procedures

Observe all federal, state and local environmental regulations.

- Wear protective equipment.
- Absorb on sand or vermiculite and place in closed containers for disposal.
- Dispose or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

First Aid Measures

- If swallowed, wash out mouth with water, provided person is conscious. Call a physician.
- In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. If a rash or other irritation develops, call a physician.
- If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.
- In case of eye contact, flush with copious amounts of water for at least 15 minutes while separating the eyelids with fingers. Call a physician.

Authorized: StressMarq Biosciences

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