

Recombinant Human AHSA1, His-tagged

Cat. No. AHSA1-499H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human AHSA1 protein with C-terminal His tag was expressed in <i>E.coli</i> , MW=38 kDa.
Species	Human
Source	E.coli
Description	Activator of 90 kDa heat shock protein ATPase homolog 1 is an enzyme that in humans is encoded by the AHSA1 gene. AHSA1 has been shown to interact with Heat shock protein 90kDa alpha (cytosolic), member A1. The co-chaperone Aha1 (Activator of HSP90 ATPase-1) binds the middle domain of Hsp90(amino acid 272-627) and is proposed to function as an ATPase-activating protein that competes with p23 and other co-chaperones for Hsp90 binding.
Purity	>90%.
Formulation	25 mM Tris-HCl, pH 8.0, 100 mM NaCl, 0.05% Tween-20, 30% glycerol, and 3 mM DTT.
Specific Activity	The addition of AHA1 increased ATPase activity of hsp90α from 0.18 to 0.94 pmol/min/ug. Assay conditions: 50 µl reaction mix (100 mM Tris-HCl pH7.4, 20 mM KCl, 6 mM MgCl ₂ , 200 Mm ATP, and 5 µg Hsp90α) was incubated with Aha1 (0-10 µg) for 3 hrs at 37°C. To stop the reaction, 100 µl of the malachite green reagent was added to each well. Absorbance at 620 nm was measured.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Application	ATPase activity assay for Hsp90α.
Storage	>6 months at –80°C.
GENE INFORMATION	
Gene Name	AHSA1 AHA1, activator of heat shock 90kDa protein ATPase homolog 1 (yeast) [Homo sapiens]
Synonyms	AHSA1; AHA1, activator of heat shock 90kDa protein ATPase homolog 1 (yeast); p38; AHA1; C14orf3; activator of 90 kDa heat shock protein ATPase homolog 1; chromosome 14 open reading frame 3; activator of heat shock 90kDa protein ATPase homolog 1
Gene ID	10598
mRNA Refseq	NM_012111
Protein Refseq	NP_036243
MIM	608466
UniProt ID	O95433
Chromosome Location	14q24
Function	ATPase activator activity; ATPase activator activity; chaperone binding; protein binding

PDB rendering based
on 1x53.



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