

Human HSP90 alpha ELISA Kit

Hsp90 Alpha StressXpress ELISA kit

CATALOG #
AAA103769

REACTIVITY
Human

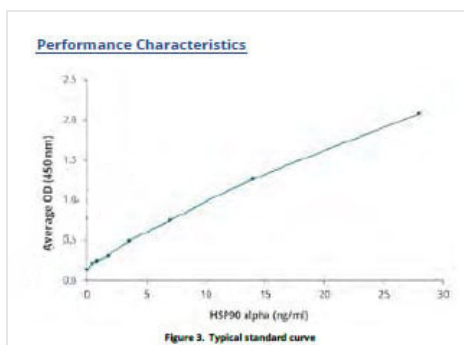
PRODUCT SYNONYMS

HSP90 alpha; Hsp90 Alpha StressXpress ELISA kit; Hsp86; Hsp89A; Hsp90A; Hsp90AA1; HspC1; HspCA; HsoCAL3; Hsp90; Hsp90 ELISA; Enzyme-Linked Immunosorbent Assay; HSP90 alpha elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay is specific for Hsp90alpha and will not react with Hsp90alpha. The assay does not cross react with 100 ng/mL of Grp94, Hsp60, or Hsp70.
Detection Range	0.44 - 28 ng/mL Suggested standard curve points are 28 ng/mL, 14 ng/mL, 7 ng/mL, 3.5 ng/mL, 1.75 ng/mL, 0.88 ng/mL, 0.44 ng/mL, and 0 ng/mL
Preparation and Storage	4 degree C

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for HSP90 alpha elisa kit

Background/Introduction: Hsp90 is a highly conserved and essential stress protein that is expressed in all eukaryotic cells. From a functional perspective, Hsp90 participates in the folding, assembly, maturation, and stabilization of specific proteins as an integral component of a chaperone complex (1-4). Despite its label of being a heat-shock protein, Hsp90 is one of the most highly expressed proteins in unstressed cells (1-2% of cytosolic protein). It carries out a number of housekeeping functions - including controlling the activity, turnover, and trafficking of a variety of proteins. Most of the Hsp90-regulated proteins that have been discovered to date are involved in cell signaling (5-6). The number of proteins now known to interact with Hsp90 is about 100. Target proteins include the kinases v-Src, Wee1, and c-Raf, transcriptional regulators such as p53 and steroid receptors, and the polymerases of the hepatitis B virus and telomerase(3). When bound to ATP, Hsp90 interacts with co-chaperones Cdc37, p23, and an assortment of immunophilin-like proteins, forming a complex that stabilizes and protects target proteins from proteasomal degradation. In most cases, Hsp90-interacting proteins have been shown to co-precipitate with Hsp90 when carrying out immune-oadsorption studies, and to exist in cytosolic heterocomplexes with it. In a number of cases, variations in Hsp90 expression or Hsp90 mutation has been shown to degrade signaling function via the protein or to impair a specific function of the protein (such as steroid binding, kinase activity) in vivo. Ansamycin antibiotics, such as geldanamycin and radicicol, inhibit Hsp90 function (7).

Product Categories/Family for HSP90 alpha elisa kit	Chaperones; Heat Shock
References	1. Arlander S.J.H., et al. (2003) J Biol Chem 278: 52572-52577. 2. Pearl H., et al. (2001) Adv Protein Chem 59: 157-186. 3. Neckers L, et al. (2002) Trends Mol Med 8:S55-S61. 4. Pratt W., Toft D. (2003) Exp Biol Med 228:111-133. 5. Pratt W., Toft D. (1997) Endocr Rev 18: 306-360. 6. Pratt W.B. (1998) Proc Soc Exptl Biol Med 217: 420-434. 7. Whitesell L., et al. (1994) Proc Natl Acad Sci USA 91: 8324- 8328. 1. Tian, W.L. et al. (2014). High expression of heat shock protein 90 alpha and its significance in human acute leukemia cells. Gene. doi: org/10.1016/j.gene.2014.03.046

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/human-elisa-kits/hsp90-alpha/103769>