

Hsp90 beta Active Protein | HSP90AB1 active protein

Recombinant Human HSP90 beta, native sequence

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA17806	Human	Human	Western Blot, ELISA, Chromatin Immunoprecipitation, Immunoprecipitation

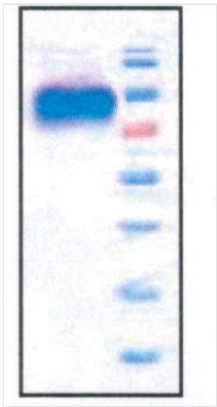
PRODUCT SYNONYMS

Hsp90 beta; Recombinant Human HSP90 beta; native sequence; FLJ26984; Hsp84; Hsp90; Hsp90B; HspC2; HspCB; HSP90AB1 active protein

PRODUCT SPECIFICATIONS

Host	Human
Reactivity	Human
Purity/Purification	Affinity Purified
Form/Format	20mM Tris, pH 7.5, 175 mM NaCl, 0.1 mM EDTA, 10% glycerol, 1 mM DTT
Concentration	2 mg/mL (varies by lot)
Sequence Length	724
Applicable Applications for HSP90AB1 active protein	WB (Western Blot), Chaperone Assay, ELISA, ChIP (Chromatin Immunoprecipitation)
Certificate of Analysis	This product has been certified >90% pure using SDS-PAGE analysis.
Tag	No tag
Expression System	Baculovirus/Sf9 cells
Research Area	Heat shock
Cellular Localization	Cytoplasm; Melanosome
Function	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 tracking 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.5. 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 immunoadsorption 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).
Preparation and Storage	-20 degree ; 1 year + Avoid freeze/thaw cycle

IMAGES



Application Data
SDS-page of 90kDa Hsp90beta protein (AAA17806)

ADDITIONAL INFORMATION

Product Categories/Family for HSP90AB1 active protein	Chaperones; Heat Shock; Trafficking
References	1. Arlander SJH, 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 WB. (1998) Proc Soc Exptl Biol Med 217: 420-434. 7. Whitesell L, et al. (1994) Proc Natl Acad Sci USA 91: 8324- 8328. 1. Prinsloo, E., Kramer, A.H., Edkins, A.L. and Blatch, G.L. (2012). STAT3 interacts directly with Hsp90. IUBMB Life. 64 (3), 266-273. doi: 10.1002/iub.607 2. Tsou, Y. et al. (2013). Heat Shock protein 90: Role in Enterovirus 71 Entry and Assembly and Potential Target for Therapy. PLoS ONE. 8(10): e77133. doi:10.1371/journal.pone.0077133 3. Hunter, M. C. et al. (2014). Hsp90 Binds Directly to Fibronectin (FN) and Inhibition Reduces the Extracellular Fibronectin Matrix in Breast Cancer Cells. PLoS One. 9(1):e86842. doi: 10.1371/journal.pone.0086842.

NCBI AND UNIPROT INFORMATION

NCBI GI #	20149594
NCBI GeneID	3326
NCBI Accession #	NP_031381.2
NCBI GenBank Nucleotide #	NM_007355.3
UniProt Accession #	P08238; Q5T9W7; Q9NQW0; Q9NTK6; B2R5P0
Molecular Weight	=90kD
NCBI Official Full Name	heat shock protein HSP 90-beta isoform a
NCBI Official Synonym Full Names	heat shock protein 90kDa alpha (cytosolic), class B member 1
NCBI Official Symbol	HSP90AB1
NCBI Official Synonym Symbols	HSP84; HSPC2; HSPCB; D6S182; HSP90B
NCBI Protein Information	heat shock protein HSP 90-beta; HSP90-beta; heat shock 84 kDa; heat shock 90kD protein 1, beta
UniProt Protein Name	Heat shock protein HSP 90-beta
UniProt Gene Name	HSP90AB1
UniProt Synonym Gene Names	HSP90B; HSPC2; HSPCB; HSP 90; HSP 84; HSP84

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/human-human-active-protein/hsp90-beta/17806>