

HSP90 beta recombinant protein

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CATALOG # AAA72887	HOST Sf9 insect cells	APPLICATIONS Western Blot
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PRODUCT SYNONYMS

HSP90 beta; HSP90 beta recombinant protein; HSP90AB1; HSPC2; HSPCB; D6S182; HSP90B; HSP90beta Protein; HSP90b Protein

PRODUCT SPECIFICATIONS

Host	Sf9 insect cells
Purity/Purification	>80%
Form/Format	Recombinant protein stored in 50mM MOPS, pH 7.0, 300mM NaCl, 150mM imidazole, 0.1mM PMSF, 0.25mM DTT, 25% glycerol.
Concentration	0.2ug/ul (varies by lot)
Sequence Length	2703
Applicable Applications for HSP90 beta recombinant protein	WB (Western Blot), ATPase Assay
Type	Recombinant Fusion Protein
Species	Human
Tag Information	His tag
Expression System	Sf9 insect cells using baculovirus
Source Note	Recombinant full length human HSP90beta was expressed by baculovirus in Sf9 insect cells using C-terminal His tag.
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Ships on dry ice. Store product at -70 degree C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

IMAGES



SDS-PAGE

The purity was determined to be >80% by densitometry. Approx. MW 91 kDa

ADDITIONAL INFORMATION

Related Product Information for HSP90 beta recombinant protein	Recombinant full length human HSP90beta was expressed by baculovirus in Sf9 insect cells using a C-terminal His tag. Scientific Background: HSP90? is a member of the HSP90 family of proteins which are important molecular chaperones involved in signal transduction, cell cycle control, stress management, and folding, degradation, and transport of proteins (1). HSP90 proteins have been found in a variety of organisms suggesting that they are ancient and conserved. HSP90 binds to client proteins (such as steroid receptors, AKT, Bcr-Abl, Apaf-1, survivin, cyclin dependent kinases) and acts as a molecular chaperone. Failure of Hsp90 chaperone activity leads to misfolding of client proteins, which leads to ubiquitination and proteasome degradation, and thus deregulation of cellular homeostasis (2).
Product Categories/Family for HSP90 beta recombinant protein	Cell Stress & Chaperone Proteins; Signaling Proteins - Cell Stress & Chaperone Proteins
References	1. Csermely, P. et al: The 90-kDa molecular chaperone family: structure, function, and clinical applications. Pharmacol Ther. 1998 Aug;79(2):129-68. 2. Georgakis, G.V. et al: Heat-shock protein 90 inhibitors in cancer therapy: 17AAG and beyond. Future Oncol. 2005 Apr;1(2):273-81.

NCBI AND UNIPROT INFORMATION

NCBI GI #	431822404
NCBI GeneID	3326
NCBI Accession #	NP_031381.2
NCBI GenBank Nucleotide #	NM_007355
UniProt Accession #	P08238; Q5T9W7; Q9NQW0; Q9NTK6; B2R5P0
Molecular Weight	~91 kDa
NCBI Official Full Name	Homo sapiens heat shock protein 90kDa alpha (cytosolic), class B member 1 (HSP90AB1), transcript variant 2, mRNA
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
UniProt Entry Name	HS90B_HUMAN

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.