

Product datasheet

Recombinant human Hsp90 beta protein (Active)  
ab80033

2 Images

Description

<b>Product name</b>	Recombinant human Hsp90 beta protein (Active)
<b>Biological activity</b>	<p>1. The reactions are in 33 mM Hepes pH7.2, 30 mM NaCl, 5 mM MgCl<sub>2</sub>, 1 mM DTT, 1.5 mM ATP in a 100 µl reaction at 37°C. It is an enzyme-linked ATP regeneration assay tracking loss of NADH absorbance at 340nm.</p> <p>2. The protein concentrations (where applicable) were 2 µM Hsp90 (Hsp90 beta), 2 µM Ahsa1 (His tagged human Ahsa1), 4 µM p23 (cleaved human p23), 4 µM HOP (His-tagged human HOP).</p> <p>3. Addition of a two-fold excess of p23 reduced Aha1-mediated Hsp90 stimulation by 30% (when using 2 µM Hsp90 and Aha1).</p> <p>4. Addition of a two -fold excess of HOP completely eliminated Aha1-mediated ATPase stimulation as well as intrinsic Hsp90 ATPase activity.</p>
<b>Purity</b>	<p>&gt; 90 % SDS-PAGE.</p> <p>ab80033 is Affinity Purified, Endotoxin-free</p>
<b>Expression system</b>	Baculovirus infected BTI-TN-5B1-4 cells
<b>Accession</b>	<a href="#">P08238</a>
<b>Protein length</b>	Full length protein
<b>Animal free</b>	No
<b>Nature</b>	Recombinant
<b>Species</b>	Human
<b>Sequence</b>	<pre> MPEEVHHGEEEEVETFAFQAEIAQLMSLIINTFYSNKEIFLRE LISNASDA LDKIRYESLTDPSKLD SGKELKIDIIPNPQERTLTLVDTGIGM TKADLIN NLGTIAKSGTKAFMEALQAGADISMIGQFGVGFYSAYLVAE KVVVITKHN DDEQYAWESSAGGSFTVRADHGEPGRGTVILHLKEDQ TEYLEERRVKE VVKKHSQFIGYPITLYLEKEREKEISDDEAEKEEKEKEEED KDDEEKPKI EDVGSDEEDDSGKDKKKKTKKIKEYIDQEELNKTTPWT RNPDDITQEE                     </pre>

YGEFYKSLTNDWEDHLAVKHFSVEGQLEFRALLFIPRRAP  
FDLFENKKKK  
NNIKLYVRRVFIMDSCDELIPEYLNFIKRVVDSDELPLNISRE  
MLQQSKI  
LKVIRKNIVKKCLELFSLEAEDKENYKFFYAFSKNLKLGIIH  
EDSTNRRR  
LSELLRYHTSQSGDEMTSLSEVSRMKETQKSIYITGESK  
EQVANSFAV  
ERVRKRGFEVVMTEPIDEYCVQQLKEFDGKSLVSVTKE  
GLELPEDEEEK  
KKMEESKAKFENLCKLMKEILDKKVEKVTISNRLVSSPCCI  
VTSTYGWTA  
NMERIMKAQALRDNSTMGYMMAKKHLEINPDHPVETLRQ  
KAEADKNDKA  
VKDLVLLFETALLSSGFSLEDPPQTHSNRIYRMIKLGID  
DEVAAEPP NAAVPDEIPPLEGDEEDASRMEEVD

**Amino acids** 1 to 724

## Specifications

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Our [Abpromise guarantee](#) covers the use of **ab80033** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<b>Applications</b>	Western blot ELISA Inhibition Assay Functional Studies SDS-PAGE
<b>Form</b>	Liquid
<b>Additional notes</b>	ab80033 is endotoxin free. <0.1 EU/ml.

## Preparation and Storage

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<b>Stability and Storage</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle. Constituents: 0.0154% DTT, 0.242% Tris, 0.00292% EDTA, 10% Glycerol (glycerin, glycerine), 1.015% Sodium chloride This product is an active protein and may elicit a biological response in vivo, handle with caution.
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## General Info

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<b>Function</b>	Molecular chaperone that promotes the maturation, structural maintenance and proper regulation of specific target proteins involved for instance in cell cycle control and signal transduction. Undergoes a functional cycle that is linked to its ATPase activity. This cycle probably induces conformational changes in the client proteins, thereby causing their activation. Interacts dynamically with various co-chaperones that modulate its substrate recognition, ATPase cycle and chaperone function.
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**Sequence similarities**

Belongs to the heat shock protein 90 family.

**Domain**

The TPR repeat-binding motif mediates interaction with TPR repeat-containing proteins.

**Post-translational modifications**

Ubiquitinated in the presence of STUB1-UBE2D1 complex (in vitro).

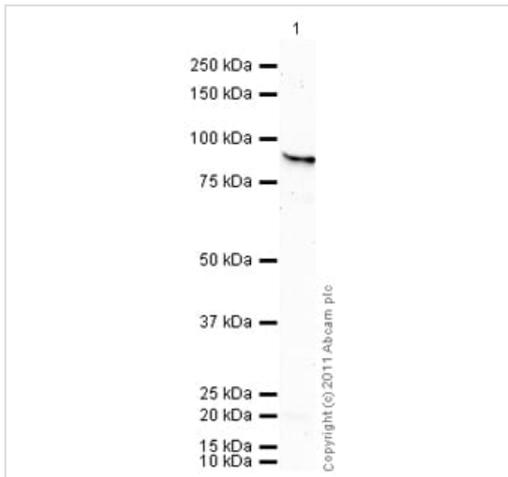
ISGylated.

S-nitrosylated; negatively regulates the ATPase activity.

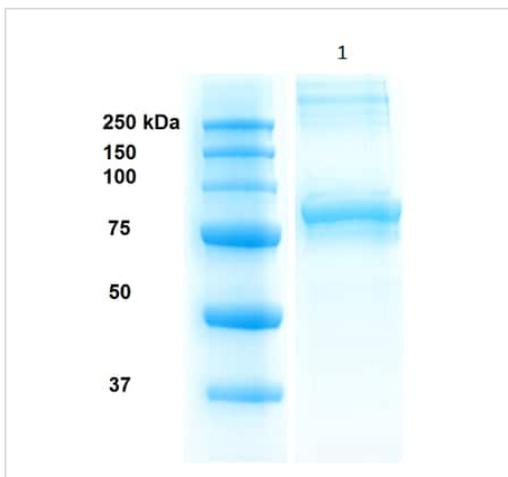
**Cellular localization**

Cytoplasm. Melanosome. Identified by mass spectrometry in melanosome fractions from stage I to stage IV.

**Images**



Western blot - Recombinant human Hsp90 beta protein (ab80033)



SDS-PAGE - Recombinant human Hsp90 beta protein (Active) (ab80033)

SDS-PAGE of Hsp90 beta protein (ab80033).

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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