

Recombinant human Hsp90 beta protein (Active) ab80033

[2 References](#) [2 Images](#)

Description

Product name	Recombinant human Hsp90 beta protein (Active)
Biological activity	<p>1. The reactions are in 33 mM Hepes pH7.2, 30 mM NaCl, 5 mM MgCl₂, 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>
Purity	<p>> 90 % SDS-PAGE.</p> <p>ab80033 is Affinity Purified, Endotoxin-free</p>
Expression system	Baculovirus infected BTI-TN-5B1-4 cells
Accession	<u>P08238</u>
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	<p>MP EEVHHG EEEVETFAFQAEIAQLMSLIINTFYSNKEIFLRE LISNASDA LDKIRYESLTDPSKLD SGKELKIDIIPNPQERTLTLVDTGIGM TKADLIN NLGTIAKSGTKAFMEALQAGADISMIGQFGVGFYSAYLVAE KVVVITKHN DDEQYAWESSAGGSFTVRADHGEP IGRGTVILHLKEDQ TEYLEERRVKE VVKKHSQFIGYPITLYLEKEREKEISDDEAE EEEKGEKEEED KDDEEKPKI EDVGSDEEDDSGKDKKKKTKKIKEKYIDQEELNKT KPWT RNPDDITQEE</p>

YGEFYKSLTNDWEDHLAVKHFSVEGQLEFRALLFIPRRAP
FDLFENK
NNIKLYVRRVFIMDSCDELIPEYLNFIKRVVDSDELPLNISRE
MLQQSKI
LKVIRKNIVKKCLELSELAEDKENYKFFYAFSKNLKLGIIH
EDSTNRRR
LSELLRYHTSQSGDEMTSLSEVSRMKETQKSIYITGESK
EQVANSFAV
ERVRKRGFEVVMTEPIDEYCVQQLKEFDGKSLVSVTKE
GLELPEDEEEK
KKMEESKAKFENLCKLMKEILDKKVEKVTISNRLVSSPCCI
VTSTYGWTA
NMERIMKAQALRDNSTMGYMMAKKHLEINPDHPVETLRQ
KAEADKNDKA
VKDLVLLFETALLSSGFSLEDPPQTHSNRIYRMIKLGGLIDE
DEVAAEEP NAAVPDEIPPLEGDEEDASRMEEVD

Predicted molecular weight 90 kDa
Amino acids 1 to 724

Specifications

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.

Applications Western blot
ELISA
Inhibition Assay
Functional Studies
SDS-PAGE

Form Liquid

Additional notes ab80033 is endotoxin free. <0.1 EU/ml.

Preparation and Storage

Stability and Storage 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.

General Info

Function 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.

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.

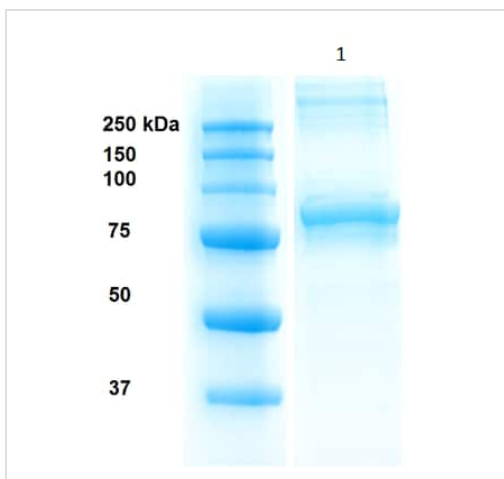
Cellular localization

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).

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