

Product datasheet for TP510297

Hsp90ab1 (NM_008302) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse heat shock protein 90 alpha (cytosolic), class B member 1 (Hsp90ab1), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR210297 representing NM_008302 Red=Cloning site Green=Tags(s)

MP EEVH H G E E E V E T F A F Q A E I A Q L M S L I I N T F Y S N K E I F L R E L I S N A S D A L D K I R Y E S L T D P S K L D S G K E
L K I D I I P N P Q E R T L T L V D T G I G M T K A D L I N N L G T I A K S G T K A F M E A L Q A G A D I S M I G Q F G V G F Y S A Y L V A
E K V W I T K H N D D E Q Y A W E S S A G G S F T V R A D H G E P I G R G T K V I L H L K E D Q T E Y L E E R R V K E V V K K H S Q F I G
Y P I T L Y L E K E R E K E I S D D E A E E E K E K E E E D K E D E E K P K I E D V G S D E E D D S G K D K K K K T K K I K E K Y I D Q E
E L N K T K P I W T R N P D D I T Q E E Y G E F Y K S L T N D W E D H L A V K H F S V E G Q L E F R A L L F I P R R A P F D L F E N K K K K
N N I K L Y V R R V F I M D S C D E L I P E Y L N F I R G V V D S E D L P L N I S R E M L Q Q S K I L K V I R K N I V K K C L E L F S E L A
E D K E N Y K K F Y E A F S K N L K L G I H E D S T N R R R L S E L L R Y H T S Q S G D E M T S L S E Y V S R M K E T Q K S I Y I T G E S
K E Q V A N S A F V E R V R K R G F E V W M T E P I D E Y C V Q Q L K E F D G K S L V S V T K E G L E L P E D E E E K K K M E E S K A K F
E N L C K L M K E I L D K K V E K V T I S N R L V S S P C C I V T S T Y G W T A N M E R I M K A Q A L R D N S T M G Y M M A K K H L E I N P
D H P I V E T L R Q K A E A D K N D K A V K D L V L L F E T A L L S S G F S L E D P Q T H S N R I Y R M I K L G L G I D E D E V T A E E P
S A A V P D E I P P L E G D E D A S R M E E V D

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-MYC/DDK
Predicted MW:	83.7 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.



[View online »](#)

Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_032328
Locus ID:	15516
UniProt ID:	P11499 , Q71LX8
RefSeq Size:	2507
Cytogenetics:	17 22.59 cM
RefSeq ORF:	2172
Synonyms:	90kDa; AL022974; C81438; Hsp84; Hsp84-1; Hsp90; Hspcb
Summary:	<p>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. Engages with a range of client protein classes via its interaction with various co-chaperone proteins or complexes, that act as adapters, simultaneously able to interact with the specific client and the central chaperone itself. Recruitment of ATP and co-chaperone followed by client protein forms a functional chaperone. After the completion of the chaperoning process, properly folded client protein and co-chaperone leave HSP90 in an ADP-bound partially open conformation and finally, ADP is released from HSP90 which acquires an open conformation for the next cycle. Apart from its chaperone activity, it also plays a role in the regulation of the transcription machinery. HSP90 and its co-chaperones modulate transcription at least at three different levels. In the first place, they alter the steady-state levels of certain transcription factors in response to various physiological cues. Second, they modulate the activity of certain epigenetic modifiers, such as histone deacetylases or DNA methyl transferases, and thereby respond to the change in the environment. Third, they participate in the eviction of histones from the promoter region of certain genes and thereby turn on gene expression. Antagonizes STUB1-mediated inhibition of TGF-beta signaling via inhibition of STUB1-mediated SMAD3 ubiquitination and degradation. Promotes cell differentiation by chaperoning BIRC2 and thereby protecting from auto-ubiquitination and degradation by the proteasomal machinery. Main chaperone that is involved in the phosphorylation/activation of the STAT1 by chaperoning both JAK2 and PRKCE under heat shock and in turn, activates its own transcription.[UniProtKB/Swiss-Prot Function]</p>