

Recombinant Human HSP90B1 protein, His-tagged

Cat. No. HSP90B1-132H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human HSP90B1(Asp22–Glu798) fused with N-terminal linker (2 extra AA), C-terminal linker (4 extra AA) and C-terminal His-tag (6 extra AA) was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	22-798 a.a.
Description	This gene encodes a member of a family of adenosine triphosphate(ATP)-metabolizing molecular chaperones with roles in stabilizing and folding other proteins. The encoded protein is localized to melanosomes and the endoplasmic reticulum. expression of this protein is associated with a variety of pathogenic states, including tumor formation. There is a microRNA gene located within the 5' exon of this gene. There are pseudogenes for this gene on chromosomes 1 and 15.
Form	Filtered (0.4 µm) and lyophilized in phosphate buffered saline (PBS) pH 8.0, 1% (w/v) Sucrose, 4% (w/v) Mannitol
Molecular Mass	90.9 kDa
AA Sequence	ASDDEVVDVG TVEEDLGKSR EGSRTDDEVV QREEEAIQLD GLNASQIREL REKSEKFAFQ AEVNRMMKLI INSLYKNKEI FLRELISNAS DALDKIRLIS LTDENALSGN EELTVKIKCD KEKNLLHVTD TGVGMTREEL VKNLGTIAKS

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

GTSEFLNKMT EAQEDGQSTS ELIGQFGVGF YSAFLVADKV IVTSKHNNDT
 QHIWESDSNE FSVIADPRGN TLGRGTTITL VLKEEASDYL ELDTIKNLVK
 KYSQFINFPI YVWSSKTETV EEPMEEEEEAA KEEKEESDDE AAVEEEEEEEK
 KPKTKKVEKT VWDWELMNDI KPIWQRPSKE VEEDEYKAFY KSFSKESDDP
 MAYIHFTAEG EVTFKSILFV PTSAPRGLFD EYGSKKSDYI KLYVRRVFIT
 DDFHDMMPKY LNFVKGVVDS DDLPLNVSRE TLQQHKLLKV IRKKLVKRTL
 DMIKKIADDK YNDTFWKEFG TNIKLGVIED HSNRTRLAKL LRFQSSHHPT
 DITSLDQYVE RMKEKQDKIY FMAGSSRKEA ESSPFVERLL KKGYEVIYLT
 EPVDEYCIQA LPEFDGKRFQ NVAKEGVKFD ESEKTKESRE AVEKEFEPLL
 NWMKDKALKD KIEKAVVSQR LTESPCALVA SQYGWSGNME RIMKAQAYQT
 GKDISTNYA SQKKTFEINP RHPLIRDMLR RIKEDEDDKT VLDLAVVLFE
 TATLRSGYLL PDKAYGDRI ERMLRSLNI DPDAKVEEEP EEEPEETAED
 TTEDTEQDED EEMDVGTDEE ETAKESTAEG PKLHHHHHH

Endotoxin < 1.0 EU/ug

Purity >90%

Applications Cell culture and/or animal studies, ELISA, Western blotting

Storage Store the lyophilized protein at –80 centigrade. Lyophilized protein remains stable until the expiry date when stored at –80 centigrade. Aliquot reconstituted protein to avoid repeated freezing/thawing cycles and store at –80 centigrade for long term storage. Reconstituted protein can be stored at 4 centigrade for three days.

Reconstitution Add 200 µof deionized water to prepare a working stock solution of approximately 0.5 mg/ml and let the lyophilized pellet dissolve completely. Filter sterilize your culture media/working solutions containing this non-sterile product before using in cell culture.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

GENE INFORMATION

Gene Name	HSP90B1 heat shock protein 90kDa beta (Grp94), member 1 [Homo sapiens]
Official Symbol	HSP90B1
Synonyms	HSP90B1; heat shock protein 90kDa beta (Grp94), member 1; TRA1, tumor rejection antigen (gp96) 1; endoplasmin; GP96; GRP94; GRP-94; gp96 homolog; tumor rejection antigen 1; 94 kDa glucose-regulated protein; Tumor rejection antigen-1 (gp96); tumor rejection antigen (gp96) 1; glucose regulated protein, 94 kDa; endothelial cell (HBMEC) glycoprotein; heat shock protein 90 kDa beta member 1; ECGP; TRA1;
Gene ID	7184
mRNA Refseq	NM_003299
Protein Refseq	NP_003290
MIM	191175
UniProt ID	P14625
Chromosome Location	12q24.2-q24.3
Pathway	Activation of Chaperone Genes by ATF6-alpha, organism-specific biosystem; Activation of Chaperones by ATF6-alpha, organism-specific biosystem; Diabetes pathways, organism-specific biosystem; Disease, organism-specific biosystem; IL6-mediated signaling events, organism-specific biosystem; Immune System, organism-specific biosystem; Innate Immune System, organism-specific biosystem;

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Function

ATP binding; RNA binding; calcium ion binding; low-density lipoprotein particle receptor binding; nucleotide binding; protein binding; protein phosphatase binding; unfolded protein binding; virion binding;

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA