
Product Data Sheet

Product Name: HSP90B1 Human, HEK

Cat. No.: GP25102

Batch No.: 1

Product Data

Purity >98%

Source HEK 293.

Physical Appearance solid

Shipping Condition Shipped at Room temp.

Synonyms ECGP; GP96; TRA1; GRP94; HSP90B1; Endoplasmin; Heat shock protein 90 kDa beta member 1; 94 kDa glucose-regulated protein; gp96 homolog; Tumor rejection antigen 1.

Amino Acid Sequence

ASDDEVVDVDG TVEEDLGKSR EGSRTDDEVV QREEEAIQLD GLNASQIREL
 REKSEKFAFQ AEVNRMMKLI INSLYKNKEI FLRELISNAS DALDKIRLIS
 LTDENALSGN EELTVKIKCD KEKNLLHVTD TGVGMTREEL VKNLGTIAKS
 GTSEFLNKMT EAQEDGQSTS ELIGQFGVGF YSAFLVADKV IVTSKHNDT
 QHIWESDSNE FSVIADPRGN TLGRGTTITL VLKEEASDYL ELDTIKNLVK
 KYSQFINFPI YVWSSKTETV EEPMEEEEEAA KEEKEESDDE AAVEEEEEEEK
 KPKTKKVEKT VWDWELMNDI KPIWQRPSKE VEEDEYKAFY KSFSKESDDP
 MAYIHFTAEG EVTFKSILFV PTSAPRGLFD EYGSKKSDYI KLYVRRVFIT
 DDFHDMMPKY LNFVKGVVDS DDLPLNVSRE TLQQHKLLKV IRKKLVRKTL
 DMIKKIADDK YNDTFWKEFG TNIKLGVIED HSNRTRLAKL LRFQSSHHPT
 DITSLDQYVE RMKEKQDKIY FMAGSSRKEA ESSPFVERLL KKGYEVIYLT
 EPVDEYCIQA LPEFDGKRFQ NVAKEGVKFD ESEKTKESRE AVEKEFEPLL
 NWMKDKALKD KIEKAVVSQR LTESPCALVA SQYGWSGNME RIMKAQAYQT
 GKDISTNYA SQKKTFEINP RHPLIRDMLR RIKEDEDDKT VLDLAVLFE
 TATLRSGYLL PDKAYGDRI ERMLRSLNI DPDAKVEEEP EEEPEETAED
 TTEDTEQDED EEMDVGTDEE ETAKESTAE G PKLHHHHHHH.

Solubility

It is recommended to add 200µl deionized water to prepare a working stock solution of approximately 0.5mg/ml and let the lyophilized pellet dissolve completely. HSP90B1 is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.

Caution: Product has not been fully validated for medical applications. For research use only.

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Formulation HSP90B1 was filtered (0.4 μm) and lyophilized in phosphate buffered saline (PBS) pH 8.0, 1% (w/v) Sucrose and 4% (w/v) Mannitol.

Introduction

HSP90B1 is an abundant molecular chaperone resident endoplasmic reticulum (ER) luminal stress protein which is part of the Hsp90 family. HSP90B1 is involved in maintaining protein homeostasis in the secretory pathway as well as functioning in the intracellular trafficking of peptides from the extracellular space to the MHC class I antigen processing pathway of antigen presentation cells. HSP90B1 has key roles in signal transduction, protein folding, protein degradation, and morphologic evolution. HSP90B1 protein associates with numerous cochaperones and involved in folding of newly synthesized proteins or stabilizing and refolding denatured proteins after stress. HSP90B1 is highly expressed in human gastric carcinoma BGC-823 cells during the whole cell cycle.

Stability

Store lyophilized protein at -20°C . Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time.

Background

HSP90B1 Human Recombinant produced in HEK cells is a single, glycosylated, polypeptide chain (Asp22-Glu798) containing a total of 789 amino acids, having a calculated molecular mass of 90.9kDa. HSP90B1 is fused to a 2 aa N-terminal linker, a 4 aa C-terminal linker and a 6 aa His tag at C-Terminus.

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