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**Product Data Sheet**


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Product Name: HSP90B1 Human  
 Cat. No.: GP25101  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	ECGP; GP96; TRA1; GRP94; HSP90B1; Endoplasmic; Heat shock protein 90 kDa beta member 1; 94 kDa glucose-regulated protein; gp96 homolog; Tumor rejection antigen 1.		
Amino Acid Sequence	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMDDE VDVDGTVEED LGKSREGSRT DDEVVQREEE AIQLDGLNAS QIRELREKSE KFAFQAEVNR MMKLIINSLY KNKEIFLREL ISNASDALDK IRLISLTDEN ALSGNEELTV KIKCDKEKNL LHVTDTGVGM TREELVKNLG TIAKSGTSEF LNKMTEAQED GQSTSELIGQ FGVGFYSAFL VADKVIVTSK HNNDTQHIWE SDSNEFSVIA DPRGNTLGRG TTITLVLKEE ASDYLELDTI KNLVKKYSQF INFPIYVWSS KTETVEEPME EEEAAKEEKE ESDDEAAVEE EEEEEKPKTK KVEKTVWDWE LMNDIKPIWQ RPSKEVEEDE YKAFYKSFSK ESDDPMAYIH FTAEGEVTFK SILFVPTSAP RGLFDEYGSK KSDYIKLYVR RVFITDDFHD MMPKYLNFKV GVVDSDDLPL NVSRETLQQH KLLKVIRKKL VRKTLDMIKK IADDKYNDTF WKEFGTNIKLV GVIEDHSNRT RLAKLLRFQS SHHPTDITSL DQYVERMKEK QDKIYFMAGS SRKEAESSPF VERLLKKGYE VIYLTEPVDE YCIQALPEFD GKRFQNVAKE GVKFDESEKT KESREAVEKE FEPLLNWMKD KALKDKIEKA VVSQRLTESP CALVASQYGW SGNMERIMKA QAYQTGKDIS TNYYSQKKT FEINPRHPLI RDMLRRIKED EDDKTVLDLA VVLFETATLR SGYLLPDTKA YGDRIERMLR LSLNIDPDAK VEEPEEEEEPE ETAEDTTEDT EQDEDEEMDV GTDEEEETAK ESTAEKDEL.		
Formulation	The GRP94 protein solution (1mg/ml) contains 20mM Tris-HCl, pH-8, 1mM EDTA, 0.1M NaCl, 1mM DTT and 10% Glycerol.		

**Introduction**

HSP90B1 is an abundant molecular chaperone resident endoplasmic reticulum (ER)

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

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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 at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

HSP90B1 produced in E.Coli is a single, non-glycosylated polypeptide chain containing 819 amino acids (22-803 a.a.) and having a molecular mass of 94.4 kDa. HSP90B1 is expressed with a 36 amino acid His tag at N-Terminus and purified by proprietary chromatographic techniques.

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