

Recombinant Human Heat Shock Protein 90kDa Beta (Grp94), Member 1

Cat. No. HSP90B1-338H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human GRP94 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography (819 aa, 94.4 kDa).
Species	Human
Source	E.coli
ProteinLength	22-803 a.a.
Description	GRP94, also known as Heat shock protein 90kDa beta, member 1 (HSP90B1), is an abundant resident endoplasmic reticulum (ER) luminal stress protein which together with cytosolic Hsp90 belongs to the Hsp90 family of molecular chaperones. It plays an important role in maintaining protein homeostasis in the secretory pathway. Also, GRP94 can function in the intracellular trafficking of peptides from the extracellular space to the MHC class I antigen processing pathway of antigen presentation cells.
Formulation	Liquid. In 20 mM Tris-HCl buffer (pH 8.0) containing 1 mM DTT, 1 mM EDTA, 0.1 M NaCl, 10% glycerol.
Molecular Weight	94.4 kDa (819 aa).
Purity	> 90% by SDS – PAGE.
Concentration	1 mg/ml (determined by Bradford assay).

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Sequence

MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMDDE VDVDGTVEED
 LGKSREGSRT DDEVVQREEE AIQLDGLNAS QIRELREKSE KFAFQAEVNR
 MMKLIINSLY KNKEIFLREL ISNASDALDK IRLISLTDEN ALSGNEELTV
 KIKCDKEKNL LHVTDTGVGM TREELVKNLG TIAKSGTSEF LNKMTAQED
 GQSTSELIGQ FGVGFYSAFL VADKVIVTSK HNNDTQHIWE SDSNEFSVIA
 DPRGNTLGRG TTITLVLKEE ASDYLELDTI KNLVKKYSQF INFPIYVWSS
 KTETVEEPME EEEAAKEEKE ESDDEAAVEE EEEEKKPKTK KVEKTVWDWE
 LMNDIKPIWQ RPSKEVEEDE YKAFYKSFSK ESDDPMAYIH FTAEGEVTFK
 SILFVPTSAP RGLFDEYGSK KSDYIKLYVR RVFITDDFHD MMPKYLNFBK
 GVVDSDDLPL NVSRETQQH KLLKVIRKKL VRKTLDMIKK IADDKYNDTF
 WKEFGTNIKL GVIEDHSNRT RLAKLLRFQS SHHPTDITSL DQYVERMKEK
 QDKIYFMAGS SRKEAESSPF VERLLKKGYE VIYLTEPVDE YCIQALPEFD
 GKRFQNVAKE GVKFDESEKT KESREAVEKE FEPLLNWMKD KALKDKIEKA
 VVSQRLTESP CALVASQYGW SGNMERIMKA QAYQTGKDIS TNYASQKKT
 FEINPRHPLI RDMLRRIKED EDDKTVLDLA VVLFETATLR SGYLLPDTKA
 YGDRIERMLR LSLNIDPDAK VEEEPPEEPE ETAEDTTEDT EQDEDEEMDV
 GTDEEEETAK ESTAEKDEL

Storage

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION
Gene Name

HSP90B1

Synonyms

HSP90B1; heat shock protein 90kDa beta (Grp94), member 1; HSP90B1 heat shock protein 90kDa beta (Grp94), member 1; ECGP; GP96; TRA1; GRP94; 94 kDa glucose-regulated protein; Heat shock protein 90 kDa beta member 1; Tumor rejection antigen 1; Tumor rejection antigen-1 (gp96); endothelial cell (HBMEC) glycoprotein; glucose regulated protein, 94 kDa; gp96 homolog; heat shock protein

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90kDa beta, member 1; tumor rejection antigen (gp96) 1.

Gene ID [7184](#)

mRNA Refseq [NM_003299.1](#)

Protein Refseq [NP_003290.1](#)

MIM [191175](#)

UniProt ID [P14625](#)

Chromosome Location 12q24.2-q24.3

Function ATP binding; RNA binding; calcium ion binding; low-density lipoprotein receptor binding; nucleotide binding; unfolded protein binding; virion binding.

PDBrendering based
on 1qy5. Available
structures: 1qy5, 1qy8, 1c

