Recombinant human GRP94/HSP90B1 protein

Catalog Number: ATGP0276

PRODUCT INFORMATION

Expression system
E.coli

Domain
22-803aa

UniProt No.
P14625

NCBI Accession No.
NP_003290.1

Alternative Names
Tumor rejection antigen GP96, Tumor rejection antigen 1, TRA1, Stress inducible tumor rejection antigen GP96, HSP90B1, Heat shock protein 90 kDa beta member 1, GRP94, GRP 9, GP96 homolog, GP96, Glucose regulated protein 94kDa, Endothelial cell (HBMEC) glycoprotein, Endoplasmin, ECGP, 94 kDa glucose-regulated protein

PRODUCT SPECIFICATION

Molecular Weight
94.4 kDa (819aa)

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 1mM EDTA, 0.1M NaCl, 10% glycerol,

Purity
> 90% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description
GRP94, also known as Heat shock protein 90kDa beta, member 1 (HSP90B1), is an abundant resident endoplasmic reticulum (ER) lumenal 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

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MHC class I antigen processing pathway of antigen presentation cells. Recombinant human GRP94 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

Amino acid Sequence

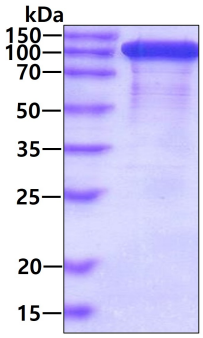
<MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSM>DDE VDVDGTVEED LGKSREGSRT DDEVVQREEE AIQLDGLNAS QIRELREKSE KFAFQAEVNR MMKLIINSLY KNKEIFLREL ISNASDALDK IRLISLTDEN ALSGNEELTV KIKCDKEKNL LHVTDTGVGM TREELVKNLG TIAKSGTSEF LNKMTEAQED GQSTSELIGQ FGVGFYSAFL VADKVIVTSK HNNDTQHIWE SDSNEFSVIA DPRGNTLGRG TTITLVLKEE ASDYLELDTI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

General References

Randow F., et al. (2001). Nat Cell Biol. 3(10):E231.
Li Z., et al. (2002). Front Biosci. 7:d731-51.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.