

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) 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

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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

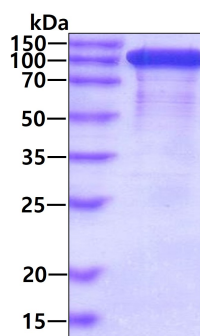
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KIKCDKEKNL LHVTDGTGVM TREELVKNLG TIAKSGTSEF LNKMTAQED GQSTSELIGQ FGVGFYSAFL VADKVIIVTSK
HNNDTQHIWE SDSNEFSVIA DPRGNTLGRG TTITLVLEE ASDYLELDI KNLVKKYSQF INFPIYVWSS KTETVEEPME
EEEEAKEEKE ESDDEAAVEE EEEKKPKTK KVEKTVWDWE LMNDIKPIWQ RPSKEVEEDE YKAFYKSFSK ESDDPMAYIH
FTAEGEVTFK SILFVPTSAP RGLFDEYGS KSDYIKLYR RVFITDDFHD MMPKYLNFVK GVVDSDDLPL NVSRETLQOH
KLLKVIRKKL VRKTLDMIKK IADDKYNDTF WKEFGTNIKL GVIEDHSNRT RLAKLLRFQS SHHPTDITSL DQYVERMKEK
QDKIYFAGS SRKEAESSPF VERLLKKGYE VIYLTEPVDE YCIQALPEFD GKRFQNVAKE GVKFDESEKT KESREAVEKE
FEPLLNWMKD KALKDKIEKA VVSQRLTESP CALVASQYGW SGNMERIMKA QAYQTGKDIS TNYASQKKT FEINPRHPLI
RDMRLRIKED EDDKTVDLA VVLFETATLR SGYLLPDTKA YGDRIERMLR LSLNIDPDAK VEEEPPEEPE 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.