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Recombinant E.coli GroEL protein

Catalog Number: GRL3001

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-548aa

UniProt No.
P0A6F5

NCBI Accession No.
NP_418567.1

Alternative Names
groL, groEL, mopA, Protein Cpn60, 60 kDa chaperonin, groEL protein, chaperonin groel

PRODUCT SPECIFICATION

Molecular Weight
57.3 kDa (548aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 25mM Tris-HCl buffer (pH 7.5) containing 100mM NaCl, 5mM DTT, 10%glycerol

Purity
> 95% by SDS-PAGE

Tag
Non-Tagged

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
GroEL protein is the major heat shock protein of E. coli and belongs to the chaperonin (HSP60) family. GroEL protein prevents misfolding of proteins and promotes the refolding and proper assembly of unfolded polypeptiedes generated under stress condition. GroEL gene was amplified by PCR from E. coli and cloned into an expression vector. This protein was overexpressed in E. coli and was purified by using conventional chromatography techniques.

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Amino acid Sequence

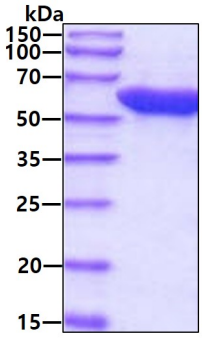
MAAKDVKFGN DARVKMLRGV NVLADAVKVT LGPKGRNVVL DKSFGAPTIT KDGVSVAREI ELEDKFENMG AQMVKEVASK ANDAAGDGTT TATVLAQAII TEGLKAVAAG MNPMDLKRGI DKAVTAAVEE LKALSVPCSD SKAIAQVGTI SANSDETVGK LIAEAMDKVG KEGVITVEDG TGLQDELDVV EGMQFDRGYL SPYFINKPET GAVELESPFI LLADKKISNI REMLPVLEAV AKAGKPLLII AEDVEGEALA TLVVNTMRGI VKVAAVKAPG FGDRRKAMLQ DIATLTGGTV ISEEIGMELE KATLEDLGQA KRVVINKDTT TIIDGVGEEA AIQGRVAQIR QQIEEATSDY DREKLQERVA KLAGGVAVIK VGAATEVEMK EKKARVEDAL HATRAAVEEG VVAGGGVALI RVASKLADLR GQNEDQNVGI KVALRAMEAP LRQIVLNCGE EPSVVANTVK GGDGNYGYNA ATEEYGNMID MGILDPTKVT RSALQYAASV AGLMITTECM VTDLPKNDAA DLGAAGGMGG MGGMGGMM

General References

Hemmingsen,S.M., et al (1988) Nature . 333(6171) 330-334
Braig,K., et al(1994) Nature 371(6498) 578-586
Chen,L and Singler,P.B. (1999) Cell 99(7) 757-768

DATA

SDS-PAGE



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