

Recombinant E.coli Chaperonin GroEL

Cat. No. GroEL-530E Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant E.coli Chaperonin GroEL was overexpressed in *E.coli* and was purified by using conventional chromatography techniques. MW = 57.3kDa (548aa).

Species E.coli

Source E.coli

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 polypeptides generated under stress condition. GroEL gene was amplified by PCR from *E.coli* and cloned into an expression vector.

Amino Acid Sequence

MAAKDVKFGN DARVKMLRGV NVLADAVKVT LGPKGRNVVL DKSFSGAPTIT
 KDGVSVAREI ELEDKFENMG AQMVKEVASK ANDAAGDGTT TATVLAQAI
 TEGLKAVAAG MNPMDLKRGV DKAVTAAVEE LKALSVPCSD SKAIAQVGTI
 SANSDETVGK LIAEAMDKVG KEGVITVEDG TGLQDELDDV EGMQFDRGYL
 SPYFINKPET GAVELESPFI LLADKKISNI REMLPVLEAV AKAGKPLLI
 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 VTDLPKNDA DLGAAGGMGG MGGMGGMM.

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Form	Liquid. In 25 mM Tris buffer (pH 7.5) containing 100 mM NaCl, 5 mM DTT, 10% glycerol.
Purity	> 95% by SDS – PAGE.
Concentration	1 mg/ml (determined by Bradford assay).
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	groEL chaperonin GroEL [Escherichia coli APEC O1]
Synonyms	GroEL; Chaperonin GroEL; chaperonin; heat shock protein
Gene ID	5616797
mRNA Refseq	YP_001481444
UniProt ID	Q19NJ4

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