

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 <i>E.coli</i> 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 DKSFGAPTIT KDGVSVAEI ELEDKFENMG AQMVKEVASK ANDAAGDGTT TATVLAQAI TEGLKAVAAG MNPMDLKRGV DKAHTAAVEE LKALSVPCSD SKAIAQVGTI SANSDETVGK LIAEAMDKVG KEGVITVEDG TGLQDELDDV EGMQFDRGYL SPYFINKPET GAVELESPFI LLADKKISNI REMLPVLEAV AKAGKPLLI AEDVEGEALA TLVNTMRGI VKVAAVKAPG FGDRRKAMLQ DIATLTGGTV ISEEIGMELE KATLEDLGQA KRVVINKDTT TIIDGVGEEA AIQGRVAQIR QQIEEATSDY DREKLQERVA KLAGGVAVIK VGAATEVEMK EKKARVEDAL HATRAAVEEG VVAGGGVALI RVASKLADLR GQNEQDNVGI 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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