

# Recombinant E.Coli Cpn60 Chaperonin GroEL, Large Subunit of GroESL

**Cat. No.** groL-4704E    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant GroEL produced in E.Coli is a single, non-glycosylated polypeptide chain containing 548 amino acids and having a molecular mass of 57.3kDa.
<b>Species</b>	E.coli
<b>Source</b>	E.coli
<b>Description</b>	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. This protein was overexpressed in E.coli and was purified by using conventional chromatography techniques.
<b>Form</b>	The groEL protein contains 25mM Tris-HCl buffer (pH 7.5), 100mM NaCl, 1mM DTT and 10% Glycerol.
<b>Purity</b>	Greater than 95.0% as determined by (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
<b>Physical Appearance</b>	Sterile filtered colorless solution.
<b>Amino acid sequence</b>	MAAKDVKFGN DARVKMLRGV NVLADAVKVT LGPKGRNVVL DKSFSGAPTIT KDGVSVAREIELEDKFENMG AQMVKEVASK ANDAAGDGTT TATVLAQAI

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TEGLKAVAAG MNPMDLKRIGDKAVTAAVEE LKALSVPCSD SKAIAQVGTI  
 SANSDETV GK LIAEAMDKVG KEGVITVEDGTGLQDELDDVV EGMQFDRGYL  
 SPYFINKPET GAVELESPFI LLADKKISNI REMLPVLEAVAKAGKPLLI  
 AEDVEGEALA TAVVNTIRGI VKVAAVKAPG FGDRRKAMLQ  
 DIATLTGGTVISEEIGMELE KATLEDLGQA KRVVINKDTT TIIDGVGEEA  
 AIQGRVAQIR QQIEEATSDYDREKLQERVA KLAGGVAVIK VGAATEVEMK  
 EKKARVEDAL HATRAAVEEG VVAGGGVALIRVASKLADLR GQNEQNVGI  
 KVALRAMEAP LRQIVLNCGE EPSVVANTVK GGDGNYGYNAATEEYGNMID  
 MGILDPTKVT RSALQYAASV AGLMITTECM VTDLPKNDA DLGAAGGMGG  
 MGGMGGMM.

**Storage**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Pathways**

RNA degradation

## GENE INFORMATION

**Gene Name**

[groL Cpn60 chaperonin GroEL, large subunit of GroESL \[ Escherichia coli str. K-12 substr. MG1655 \]](#)

**Official Symbol**

[groL](#)

**Synonyms**

groL; Cpn60 chaperonin GroEL, large subunit of GroESL; CPN60, GROEL, HSP60, HSP65, SPG13, CHA60, GROL, crpA, mopA, 60 kDa chaperonin, Protein Cpn60, groEL protein, b4143, JW4103

**Gene ID**

[948665](#)

**Protein Refseq**

[NP\\_418567](#)

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<b>UniProt ID</b>	P0A6F5
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<b>Function</b>	protein folding
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