

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

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

SPECIFICATION

Product Overview	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.
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. This protein was overexpressed in E.coli and was purified by using conventional chromatography techniques.
Form	The groEL protein contains 25mM Tris-HCl buffer (pH 7.5), 100mM NaCl, 1mM DTT and 10% Glycerol.
Purity	Greater than 95.0% as determined by (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Physical Appearance	Sterile filtered colorless solution.
Amino acid sequence	MAAKDVKFGN DARVKMLRGV NVLADAVKVT LGPKGRNVVL DKSFGAPTIT KDGVSVAREIELEDKFENMG AQMVKEVASK ANDAAGDGTT TATVLAQAI

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TEGLKAVAAG MNPMDLKRIGDKAVTAAVEE LKALSVPCSD SKAIAQVGTI
 SANSDETVGK LIAEAMDKVG KEGVITVEDGTGLQDELDVV 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 VTDLPKNDAA 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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UniProt ID	P0A6F5
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Function	protein folding
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